

APPENDIX B

ARBORIST REPORT, TREE PROTECTION PLAN AND INVENTORY
CY CARLBERG - 2008

EVALUATION OF PROPOSED CONSTRUCTION ADJACENT TO
TREES AT THE GUASTI VILLA IN
ONTARIO, CALIFORNIA

SUBMITTED TO

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C Y C A R L B E R G

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EXECUTIVE SUMMARY

Redevelopment of the historic Guasti Villa site in Ontario, California proposes to remove **327** trees, preserve and protect **112** trees, and relocate **34** trees. The new landscape design mitigates the loss of trees with a generous amount of large specimen trees and shade and flowering trees. Construction as it pertains to protected trees will be monitored by a professional consulting arborist.

BACKGROUND AND ASSIGNMENT

OliverMcMillan is in the design phase of a mixed use retail, entertainment, residential, and office district at the 49-acre Guasti Villa site in Ontario, California. The redevelopment will integrate a number of historic buildings and mature trees. Some of the overmature trees are past their useful lifespan and will be removed. A number of the more desirable trees that cannot be preserved will be relocated. 112 existing trees will be incorporated into the project design.

The project involves the demolition of some of the existing structures, site grading, and infrastructure improvements. Of the 327 trees proposed to be removed, 19 are California natives. Eleven native trees will be retained. Two majestic coast live oaks and one interior live oak are among the native trees to remain.

I was retained to prepare a tree report in accordance with guidelines set forth by the City of Ontario and Carolyn Bell, Landscape Architect for the City. This report is based on my site visits in early 2007 and coordination with EDAW Inc., landscape architects for the project. Pages 1-17 contain the tree inventory and Tree Preservation Specifications begin on page 5. Photographs accompanying this report illustrate site context, branch architecture, and tree vigor.

OBSERVATIONS AND DISCUSSION

There are several potential consequences related to construction that may affect trees during and after a typical construction process. They are as follows:

- EXCAVATION/TRENCHING—ROOT SEVERANCE
- SOIL COMPACTION (DURING AND POST-CONSTRUCTION)
- GRADING (CUT AND/OR FILL)
- ALTERATION OF THE WATER TABLE/SITE DRAINAGE
- SUBSTANTIAL TRIMMING OF CANOPY OR ROOTS
- MECHANICAL DAMAGE
- IRRIGATION

A. EXCAVATION/TRENCHING—ROOT SEVERANCE

Trenching can include excavation for foundations and trenching for irrigation, utility, or drainage lines.

- *Hand trenching should be done close to the trunk to expose the location of major roots—perhaps those two inches in diameter or greater.*
- *When root cutting is permitted, exposed major roots should not be ripped by construction equipment. Instead, they should be cut cleanly behind torn ends, if possible back to a lateral branching root.*
- *Trenching pathways should avoid the Tree Protection Zone¹. Tunneling and bridging should be used to preserve roots two inches in diameter or greater, and wherever possible underground lines should occupy common trenches.*
- *Absorbent tarp or heavy cloth fabric should cover new grade cuts and be overlain by compost or woodchip mulch.*

Because of the preliminary nature of the design, it is difficult to address each remaining tree and its particular construction impacts. The larger specimens, including two coast live oaks, an interior live oak, and a London plane tree, are in planting areas a fair distance from building construction. Once the grading and utility plans have been finalized, it will be possible to study the impacts pertaining to individual trees.

B. SOIL COMPACTION

Soil compaction is a complex set of physical, chemical, and biological constraints on tree growth. Principal components leading to limited growth are the loss of aeration and pore space, poor gas exchange with the atmosphere, lack of available water, and mechanical impedance of root growth. Soil compaction is considered to be the largest single factor responsible for the decline of trees on construction sites.

Soil compaction is a concern and will be mitigated when possible by generous tree protection zones. Construction precautions, such as steel traffic plates and fencing will help protect sensitive root zones from undue soil compaction.

C. CHANGES IN GRADE

Changes in grade, by the addition or removal of soil (filling or cutting), can be injurious. Lowering the grade around trees can have immediate and long-term effects on trees. Typically, the vast majority of the root mass exists within the top 3 feet of soil, and most of the fine roots active in water and nutrient absorption are in the top 12 inches.

No more than four inches +/- (cut or fill) is expected within the ***Tree Protection Zones*** of trees to remain. Tree wells may be employed when grading exceeds four inches.

¹ For purposes of this report, the **dripline** shall be the Tree Protection Zone. The dripline is the outermost edge of the tree's canopy. When depicted on a map, the dripline will appear as an irregular shape that follows the contour of the tree's branches as seen from overhead.

D. ALTERATION OF THE WATER TABLE/SITE DRAINAGE

The water table is the upper surface of the zone in which soil macropores are saturated with water; water tables may vary seasonally. Rather than a flat, static surface, the water moves down a gradient. Its depth varies, depending on the structure of the soil and rocks through which it flows. A perched water table may form in soils that have impermeable strata. Swamps are created where the water table intersects level ground.

Structures such as footings, basements, subterranean buildings, and retaining walls may intercept impermeable layers in the soil on which water perches. If adequate drainage is not provided, the water table uphill may gradually rise and interfere with tree roots. This type of damage usually takes a period of time to be recognized and diagnosed.²

Oaks are particularly susceptible to root infections, such as Armillaria and Phytophthora. Both of these fungal diseases can progressively weaken a root system, resulting in dead branches in the canopy of the tree, loss of stability of the entire tree because of decaying roots, and premature death of the tree. Trees form roots in accordance with existing soil composition and water availability. Minor drainage changes in the winter and spring months are insignificant to the health of the trees.

Based on the sloping topography of the project site, drainage conditions are not anticipated to become an issue during and subsequent to construction. Rainfall from roof and hardscape areas will be collected via surface drainage and sloping conditions.

E. CANOPY AND ROOT PRUNING

All above-ground pruning shall be in accordance with the Tree Pruning Guidelines (International Society of Arboriculture) and/or the ANSI A300 Pruning Standard (American National Standard for Tree Care Operations) and adhere to the most recent edition of ANSI Z133.1.

If root pruning occurs, it will be coordinated between the General Contractor and Arborist of Record or Owner's Authorized Representative.

F. PROTECTION AGAINST MECHANICAL DAMAGE/FENCING

Fencing is a temporary enclosure erected around a tree to enclose as much of its protection zone as possible. Fences are critical to (1) prevent direct contact and damage to the canopy, branches, and trunk, (2) preserve roots and soil in an intact and non-compacted state, and (3) identify the Tree Protection Zone. Fencing must be in place before demolition or the initiation of construction, and remain until adjacent construction activity no longer threatens tree health.

² Nelda Matheny and James R. Clark, Trees and Development: A Technical Guide to Preservation of Trees During Land Development, (Champaign, Illinois: International Society of Arboriculture, 1998), pp. 88-89.

Six-foot high chain link fencing will protect trees to remain. Location of protective fencing will be coordinated with the Arborist of Record and General Contractor before demolition and site grading commences.

G. IRRIGATION

Trees that have suffered root loss may not be able to exploit as large a soil volume as before injury. Also, changed patterns of drainage may divert water away from trees. In either case, trees may benefit from supplemental irrigation. The following are general guidelines:

- *The amount of water applied must be appropriate to the species.*
- *Light, infrequent irrigations should be avoided.*
- *Excess irrigation from new landscaping should be avoided. Runoff from plantings should be minimized and/or directed away from trees.*
- *Wetting the trunk should be avoided.³*

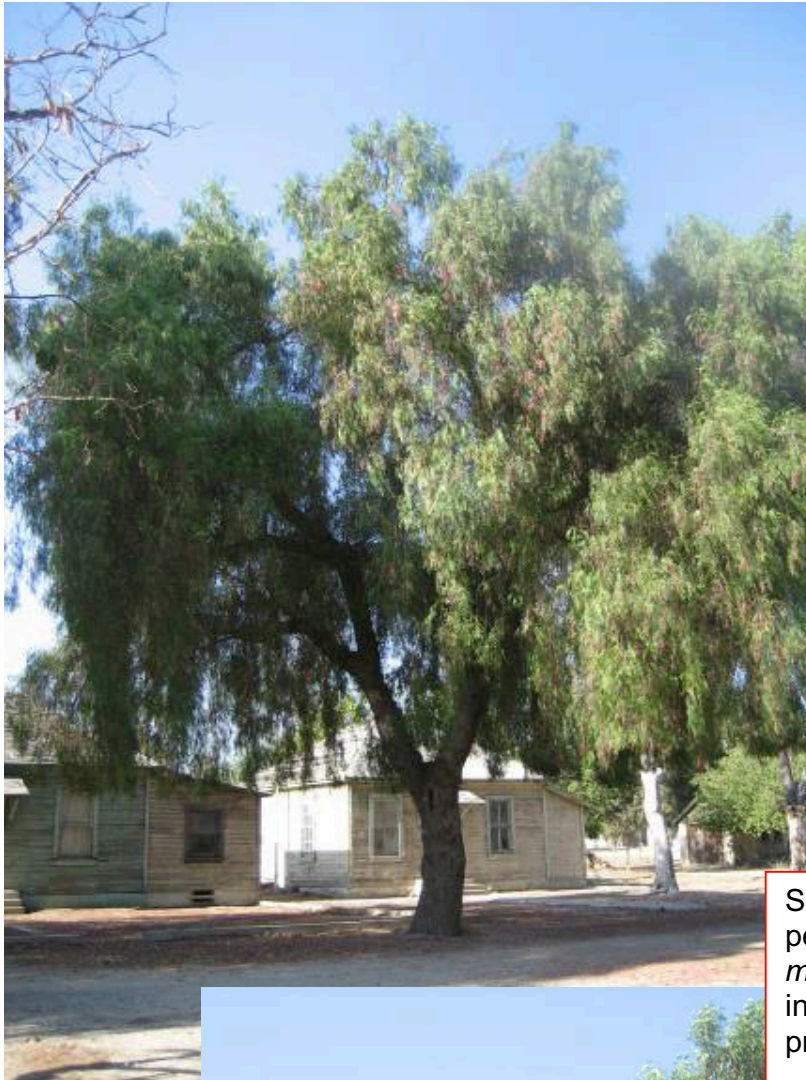
A source of potable water and a system of soaker hoses will be provided for each protective fence enclosure. The contractor will supplementally irrigate each tree as directed by the Owner or Arborist of Record.

CONCLUSION AND RECOMMENDATIONS

In my professional opinion the project may proceed if the following conditions are met:

- Any demolition, digging, excavating, or trenching within the ***Tree Protection Zones*** of trees to remain is monitored by the Arborist of Record or the Owner's Authorized Representative.
- The precise location of each tree to remain is verified by a professional surveyor.

³ See Matheny and Clark, p. 125.

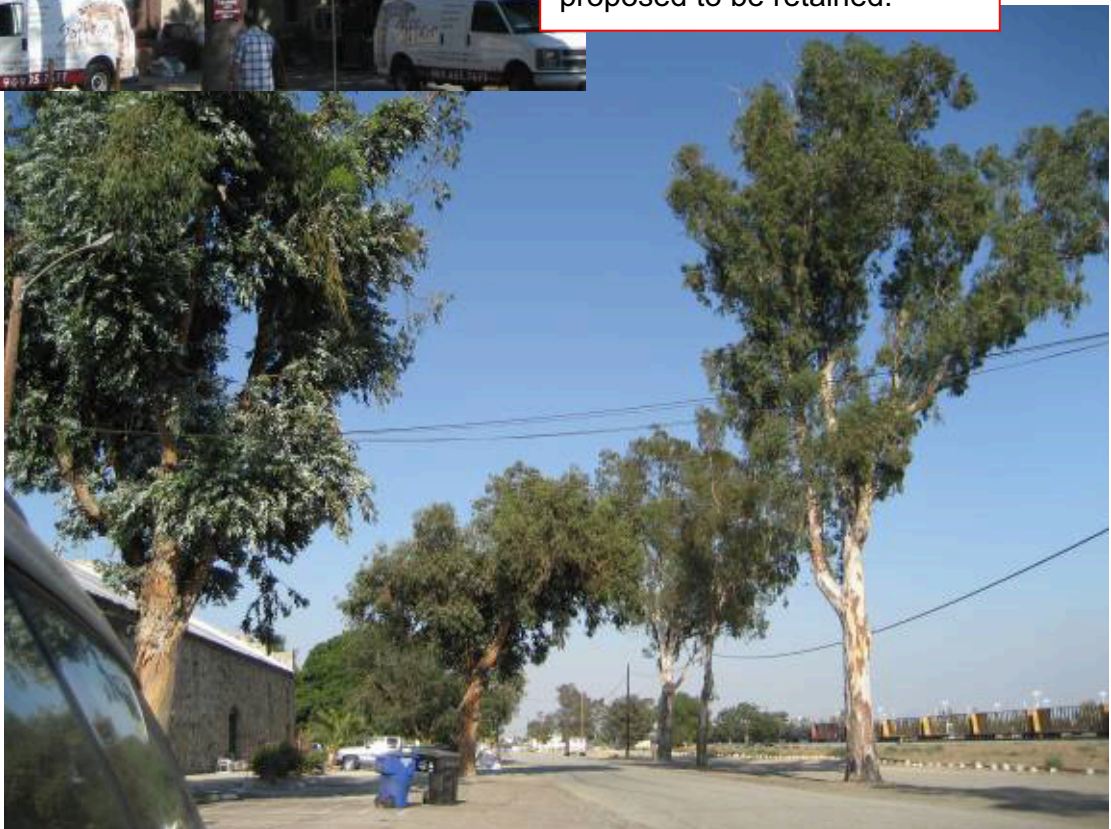


Showing two California pepper trees (*Schinus molle*) proposed to be incorporated into the project design.





Showing a California fan palm (*Washingtonia filifera*) and a number of eucalyptus trees proposed to be retained.





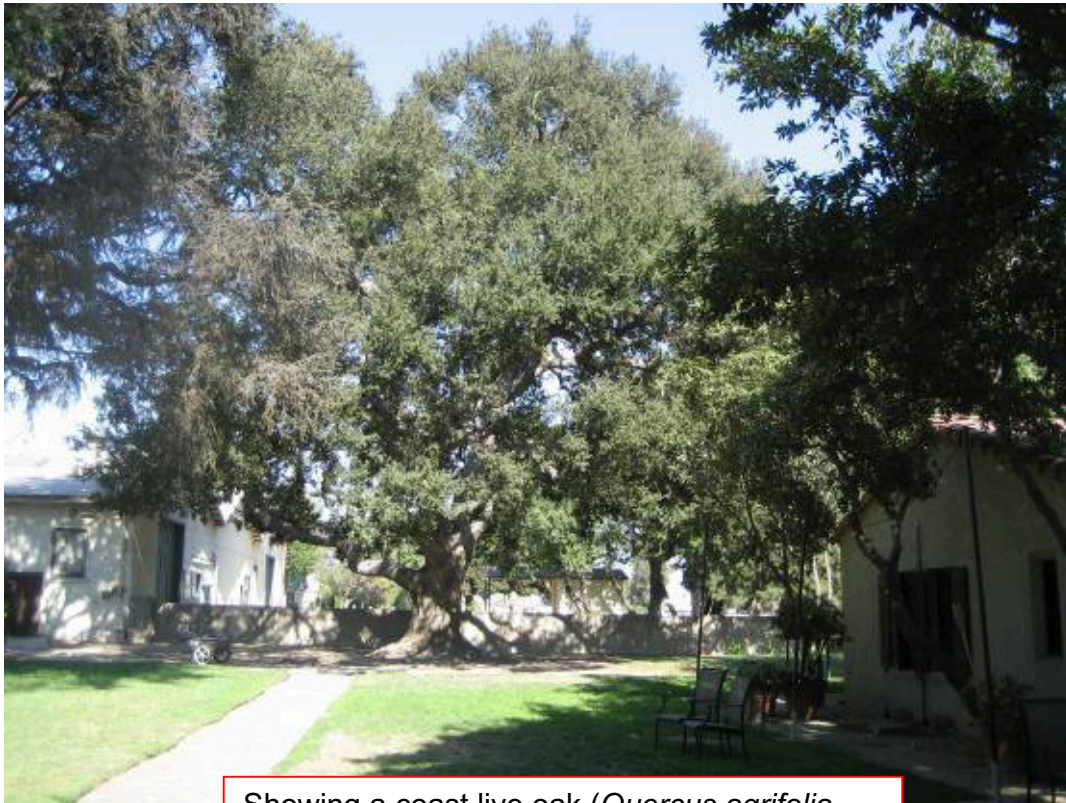
Showing a number of deodar cedars (*Cedrus deodara* and *Cedrus atlantica* 'Glaucua') to be preserved.





Showing a London plane tree (*Platanus x acerifolia*) and an Italian stone pine (*Pinus pinea*) proposed to be retained.





Showing a coast live oak (*Quercus agrifolia*--above) and a camphor tree (*Cinnamomum camphora*) and cork oak (*Quercus suber*—below) proposed to be retained.



Tree Inventory at Guasti Villa, Ontario, California

GUASTI VINEYARD ARBORIST REPORT - JANUARY 2007								Total Removed: 344
Updated 06/03/08								Total Transplants: 28
								Total Preserved: 106
Tree #	Common Name	Botanical Name	Diameter at 4.5 feet (dbh) in inches	Condition Rating	Structure Rating	Suitability for Preservation	Comments	Disposition
1	California privet	<i>Ligustrum ovalifolium</i>	6 @ 3'	Good	Good	Good	Needs minimal amount of deadwooding. The shrubs will be in the way of new construction and not cost effective to transplant	REMOVE
2	Victorian box	<i>Pittosporum undulatum</i>	7	Good	Good	Good	Needs minimal amount of deadwooding	TRANSPLANT
3	Coast redwood	<i>Sequoia sempervirens</i>	24	Good	Good	Good	Would benefit from bubbler irrigation in new system. Retain tree until design for Villa is complete and reassess if it should be removed.	PROTECT AND PRESERVE
4	California fan palm	<i>Washingtonia filifera</i>	40' Brown Trunk (BT)	Good	Good	Excellent		PROTECT AND PRESERVE
5	Victorian box	<i>Pittosporum undulatum</i>	10.5, 13.5	Good	Fair	Good	Topped -- broken in some areas -- needs pruning. Plant is not healthy enough to keep and will be in the way of new construction.	REMOVE
6	California bay laurel	<i>Umbellularia californica</i>	6, 7	Good	Good	Very good	The shrub will be in the way of new construction and it is not cost effective to transplant	REMOVE
7	Laurel-leaved snailseed	<i>Cocculus laurifolius</i>	13	Good	Good	Excellent	Trees 7-12 comprise a grove: Trees are growing too close together and if separated will not be aesthetically attractive enough or cost effective to transplant. Due to the location of the proposed roadway and walkway locations in this area these trees should be removed.	REMOVE
8	Laurel-leaved snailseed	<i>Cocculus laurifolius</i>	8	Good	Good	Excellent	Same as 7	REMOVE
9	Laurel-leaved snailseed	<i>Cocculus laurifolius</i>	8.5, 11.5	Good	Good	Excellent	Same as 7	REMOVE
10	Laurel-leaved snailseed	<i>Cocculus laurifolius</i>	10	Good	Good	Excellent	Same as 7	REMOVE
11	Laurel-leaved snailseed	<i>Cocculus laurifolius</i>	11.5	Good	Good	Excellent	Same as 7	REMOVE
12	Laurel-leaved snailseed	<i>Cocculus laurifolius</i>	11, 14	Good	Good	Excellent	Same as 7	REMOVE
13	Italian stone pine	<i>Pinus pinea</i>	40	Good	Good	Excellent	Well-pruned in the past	PROTECT AND PRESERVE
14	California juniper	<i>Juniperus californica</i>	8, 15	Fair to good	Good	Good	The shrub/tree will be in the way of new construction and is not healthy or attractive enough to cost effectively transplant	REMOVE
15	Cork oak	<i>Quercus suber</i>	20	Good	Good	Excellent	Needs minimal amount of deadwooding. Tree will be in the way of the new roadway construction and is not cost effective enough to transplant	REMOVE

Tree Inventory at Guasti Villa, Ontario, California

Tree #	Common Name	Botanical Name	Diameter at 4.5 feet (dbh) in inches	Condition Rating	Structure Rating	Suitability for Preservation	Comments	Disposition
16	Cork oak	<i>Quercus suber</i>	17	Good	Good	Excellent	Wound on trunk is superficial	REMOVE
17	Camphor	<i>Cinnamomum camphora</i>	12.5, 17, 20 @ 4'	Good	Good	Excellent	Needs minimal amount of deadwooding	PROTECT AND PRESERVE
18	Laurel-leafed snailseed	<i>Cocculus laurifolius</i>	11, 13	Good	Good	Excellent	Needs minimal amount of deadwooding. Tree will be in the way of the new roadway construction and is not cost effective enough to transplant	REMOVE
19	Laurel-leafed snailseed	<i>Cocculus laurifolius</i>	13	Good	Good	Excellent	Needs minimal amount of deadwooding. Tree will be in the way of the new roadway construction and is not cost effective enough to transplant	REMOVE
20	Camphor	<i>Cinnamomum camphora</i>	44 @ 3'	Good	Good	Excellent	Needs minimal amount of deadwooding	PROTECT AND PRESERVE
21	Olive tree	<i>Olea europaea</i>	13, 17	Good	Good	Excellent	Large branches have been pruned off badly - trees will be within new building envelope and need to be removed	REMOVE
22	Olive tree	<i>Olea europaea</i>	11, 12.5	Good	Good	Excellent	Large branches have been pruned off badly - trees will be within new building envelope and need to be removed	REMOVE
23	Olive tree	<i>Olea europaea</i>	11, 12	Good	Good	Excellent	Large branches have been pruned off badly - trees will be within new building envelope and need to be removed	REMOVE
24	Olive tree	<i>Olea europaea</i>	8.5, 14, 16	Good	Good	Excellent	Large branches have been pruned off badly - trees will be within new building envelope and need to be removed	REMOVE
25	Olive tree	<i>Olea europaea</i>	12, 12.5	Good	Good	Excellent	Large branches have been pruned off badly - trees will be within new building envelope and need to be removed	REMOVE
26	Olive tree	<i>Olea europaea</i>	13	Good	Good	Excellent	Large branches have been pruned off badly - trees will be within new building envelope and need to be removed	REMOVE
27	Olive tree	<i>Olea europaea</i>	12.5, 13.5, 14	Good	Good	Excellent	Large branches have been pruned off badly - trees will be within new building envelope and need to be removed	REMOVE
28	Olive tree	<i>Olea europaea</i>	11 @ 3'	Good	Good	Excellent	Large branches have been pruned off badly - trees will be within new building envelope and need to be removed	REMOVE
29	Olive tree	<i>Olea europaea</i>	9.5, 10	Good	Good	Excellent	Large branches have been pruned off badly - trees will be within new building envelope and need to be removed	REMOVE
30	Olive tree	<i>Olea europaea</i>	10, 13.5	Good	Good	Excellent	Large branches have been pruned off badly - trees will be within new building envelope and need to be removed	REMOVE
31	Olive tree	<i>Olea europaea</i>	11, 11.5	Good	Good	Excellent	Large branches have been pruned off badly - trees will be within new building envelope and need to be removed	REMOVE
32	Fruitless mulberry	<i>Morus alba</i> 'Fruitless'	6, 6, 8	Dormant	Good	Good	Topped in past and will be in the way of new construction	REMOVE

Tree Inventory at Guasti Villa, Ontario, California

Tree #	Common Name	Botanical Name	Diameter at 4.5 feet (dbh) in inches	Condition Rating	Structure Rating	Suitability for Preservation	Comments	Disposition
33	Fruitless mulberry	<i>Morus alba</i> 'Fruitless'	7.5, 10, 10	Dormant	Good	Good	Topped in past and will be in the way of new construction	REMOVE
34	River she-oak	<i>Casuarina cunninghamiana</i>	10.5, 14	Good	Good	Excellent	Tree is located where New Guasti Road is proposed. Not an acceptable form or worth transplanting.	REMOVE
35	River she-oak	<i>Casuarina cunninghamiana</i>	8, 12.5, 13, 16	Good	Fair	Excellent	Some decay at base -- low target (now). Tree is located where New Guasti Road is proposed. Not an acceptable form or worth transplanting.	REMOVE
36	River she-oak	<i>Casuarina cunninghamiana</i>	8, 10, 13, 18	Good	Good	Excellent	Tree is located where New Guasti Road is proposed. Not an acceptable form or worth transplanting.	REMOVE
37	Carob tree	<i>Ceratonia siliqua</i>	37	Good	Good	Excellent	Big canopy spread -- no apparent decay	TRANSPLANT
38	Interior live oak	<i>Quercus wislizenii</i>	36	Fair to good	Good	Excellent		PROTECT AND PRESERVE
39	Hackberry	<i>Celtis occidentalis</i>	27	Dormant	Good	Excellent	May be in early decline -- recently (over) pruned. Not worth transplanting based on form and quality of tree. Tree will also be in the way of building construction	REMOVE
40	Incense cedar	<i>Calocedrus decurrens</i>	11	Fair	Good	Fair	Asymmetrical. Tree is only in fair condition and will be in the way of construction.	REMOVE
41	Deodar cedar	<i>Cedrus deodara</i>	18	Good	Good	Excellent	Please do not introduce irrigation in new scheme; could be thinned lightly. Tree will be in the way of new construction and is not cost effective to transplant	REMOVE
42	Deodar cedar	<i>Cedrus deodara</i>	22	Good	Good	Excellent	Please do not introduce irrigation in new scheme; could be thinned lightly	PROTECT AND PRESERVE
43	Blue gum	<i>Eucalyptus globulus</i>	58	Good	Fair	Very good	Old cavity south side; prune if it's been two or more years. Tree will be in the way of new construction. Not healthy enough to transplant	REMOVE
44	Blue gum	<i>Eucalyptus globulus</i>	45	Good	Fair	Very good	Recently pruned	PROTECT AND PRESERVE
45	Hackberry	<i>Celtis occidentalis</i>	43	Dormant	Good	Excellent	Thin and aerially inspect for defects	PROTECT AND PRESERVE
46	Chinaberry	<i>Melia azedarach</i>	16.5 @ 3'	Dormant	Fair	Good	Species is subject to breakage; lean -- thin. Tree will be in the way of new construction. Tree not healthy enough to transplant	REMOVE
47	Chinaberry	<i>Melia azedarach</i>	11.5, 12	Dormant	Fair	Good	Species is subject to breakage; lean -- thin. Tree will be in the way of new construction. Tree not healthy enough to transplant	REMOVE
48	Chinaberry	<i>Melia azedarach</i>	~ 20	Dormant	Fair	Good	Species is subject to breakage; lean -- thin. Tree will be in the way of new construction. Tree not healthy enough to transplant	REMOVE
49	Chinaberry	<i>Melia azedarach</i>	9, 10, 11	Dormant	Fair	Good	Species is subject to breakage; lean -- thin. Tree will be in the way of new construction. Tree not healthy enough to transplant	REMOVE

Tree Inventory at Guasti Villa, Ontario, California

Tree #	Common Name	Botanical Name	Diameter at 4.5 feet (dbh) in inches	Condition Rating	Structure Rating	Suitability for Preservation	Comments	Disposition
50	Chinaberry	<i>Melia azedarach</i>	25	Dormant	Fair	Good	Species is subject to breakage; lean -- thin. Tree will be in the way of new construction. Tree not healthy enough to transplant	REMOVE
51	Southern magnolia	<i>Magnolia grandiflora</i>	27	Good	Good	Excellent	Species is subject to breakage; lean -- thin	PROTECT AND PRESERVE
52	Canary Island date palm	<i>Phoenix canariensis</i>	50' BT	Good	Good	Excellent		PROTECT AND PRESERVE
53	Fruitless mulberry	<i>Morus alba</i> 'Fruitless'	20	Dormant	Fair	Good	Topped. Tree form is poor and worth transplanting. Tree will be in the way of new construction	REMOVE
54	California bay laurel	<i>Umbellularia californica</i>	2 @ 2", 3 @ 3", 4 @ 4"	Good	Good	Very good	Tree will be in the way of new construction. Tree not healthy enough to transplant	REMOVE
55	Chinaberry	<i>Melia azedarach</i>	13.5, 20	Dormant	Fair	Good	Species is subject to breakage; lean -- thin. Tree will be in the way of new construction. Tree not healthy enough to transplant	REMOVE
56	Locust	<i>Gleditsia triacanthos</i>	19	Poor	Poor	Good	May be dead -- decay in roots. Unhealthy tree and will be in the path of new construction	REMOVE
57	Deodar cedar	<i>Cedrus deodara</i>	30.5	Good	Good	Excellent	Recently pruned; big canopy spread	PROTECT AND PRESERVE
58	Atlas cedar	<i>Cedrus atlantica</i>	32	Good	Good	Excellent	Well-pruned in the past	PROTECT AND PRESERVE
59	London plane tree	<i>Platanus</i> x <i>acerifolia</i>	45	Good	Good	Excellent	One of the nicest trees on the property, however tree is somewhat open in form and has utility lines buried in trunk. It also has been guy wired in the past possibly to prevent leaning.	PROTECT AND PRESERVE
60	Coast live oak	<i>Quercus agrifolia</i>	53	Good	Good	Excellent	Severely overpruned; will recover	PROTECT AND PRESERVE
61	Olive tree	<i>Olea europaea</i>	12, 12.5	Good	Good	Excellent	Upon further inspection, trees were found to not be in a good enough condition to retain, as they are leaning heavily with sparse growth.	REMOVE
62	Olive tree	<i>Olea europaea</i>	8.5, 15	Good	Good	Excellent	A little branch decay -- OK due to species. Tree is not healthy enough to transplant and has a leaning form. It will also be in the way of new building construction.	REMOVE
63	Tanbark oak	<i>Lithocarpus densiflorus</i>	14	Good	Fair	Very good	Light installation is invasive. Tree will be in the way of new construction.	REMOVE
64	Olive tree	<i>Olea europaea</i>	14	Good	Good	Excellent	Upon further inspection, trees were found to not be in a good enough condition to retain, as they are leaning heavily with sparse growth.	REMOVE
65	Olive tree	<i>Olea europaea</i>	15	Good	Good	Excellent	Upon further inspection, trees were found to not be in a good enough condition to retain, as they are leaning heavily with sparse growth.	REMOVE
66	Olive tree	<i>Olea europaea</i>	11.5	Good	Good	Excellent	Upon further inspection, trees were found to not be in a good enough condition to retain, as they are leaning heavily with sparse growth.	REMOVE
67	Olive tree	<i>Olea europaea</i>	11	Good	Fair	Excellent	A little branch decay -- OK due to species. Tree is not healthy enough to transplant and has a leaning form. It will also be in the way of new building construction.	REMOVE

Tree Inventory at Guasti Villa, Ontario, California

Tree #	Common Name	Botanical Name	Diameter at 4.5 feet (dbh) in inches	Condition Rating	Structure Rating	Suitability for Preservation	Comments	Disposition
68	Coast live oak	<i>Quercus agrifolia</i>	38.5	Good	Good	Excellent	Severly overpruned; will recover	PROTECT AND PRESERVE
69	Blue gum	<i>Eucalyptus globulus</i>	38	Good	Fair	Very good	Gall at 25' is not a major defect; recently pruned. Tree will be in the way of construction and not cost effective enough to transplant	REMOVE
70	Mock orange	<i>Pittosporum tobira</i>	3.5, 7.5	Good	Good	Excellent		PROTECT AND PRESERVE
71	Blue gum	<i>Eucalyptus globulus</i>	26	Good	Fair	Very good	Recently pruned. Tree will be in the way of construction and not cost effective enough to transplant	REMOVE
72	Victorian box	<i>Pittosporum undulatum</i>	9.5	Good	Good	Good		TRANSPLANT
73	Wilson holly	<i>Ilex x altacrerensis</i> 'Wilsonii'	4	Good	Good	Very good	Tree will be in the way of construction and not cost effective enough to transplant	REMOVE
74	Wilson holly	<i>Ilex x altacrerensis</i> 'Wilsonii'	5	Good	Good	Very good	Recently pruned. Tree will be in the way of construction and not cost effective enough to transplant	REMOVE
75	Carolina cherry	<i>Prunus caroliniana</i>	5	Good	Good	Good	Tree will be in the way of construction and not cost effective enough to transplant	REMOVE
76	Carolina cherry	<i>Prunus caroliniana</i>	3.5	Good	Good	Good	Tree will be in the way of construction and not cost effective enough to transplant	REMOVE
77	Carolina cherry	<i>Prunus caroliniana</i>	2, 4.5	Good	Good	Good	Tree will be in the way of construction and not cost effective enough to transplant	REMOVE
78	Carolina cherry	<i>Prunus caroliniana</i>	7.5	Good	Good	Good	Tree will be in the way of construction and not cost effective enough to transplant	REMOVE
79	Canary Island date palm	<i>Phoenix canariensis</i>	45' BT	Good	Good	Excellent		PROTECT AND PRESERVE
80	Victorian box	<i>Pittosporum undulatum</i>	13	Good	Good	Excellent	Please do not introduce irrigation in new scheme	TRANSPLANT
81	Victorian box	<i>Pittosporum undulatum</i>	9, 11.5	Good	Good	Excellent	Please do not introduce irrigation in new scheme	TRANSPLANT
82	Victorian box	<i>Pittosporum undulatum</i>	20	Good	Good	Excellent	Please do not introduce irrigation in new scheme. Not cost effective enough to transplant and will be in the way of new construction.	REMOVE
83	Canary Island date palm	<i>Phoenix canariensis</i>	45' BT	Good	Good	Excellent		TRANSPLANT
84	Loquat	<i>Eriobotrya japonica</i>	6.5	Good	Good	Good		TRANSPLANT
85	Strawberry tree	<i>Arbutus unedo</i>	7, 7	Good	Good	Excellent		TRANSPLANT
86	Strawberry tree	<i>Arbutus unedo</i>	6	Good	Good	Excellent		TRANSPLANT
87	California fan palm	<i>Washingtonia filifera</i>	55' BT	Good	Good	Very good		TRANSPLANT
88	Persimmon	<i>Diospyros kaki</i>	9.5	Dormant	Good	Very good	Tree will be in the way of new roadway construction, and it is not cost effective to transplant	REMOVE
89	Guava	<i>Psidium guajava</i>	6, 12.5	Good	Good	Excellent	Tree will be in the way of new roadway construction, and it is not cost effective to transplant	REMOVE

Tree Inventory at Guasti Villa, Ontario, California

Tree #	Common Name	Botanical Name	Diameter at 4.5 feet (dbh) in inches	Condition Rating	Structure Rating	Suitability for Preservation	Comments	Disposition
90	Blue gum	<i>Eucalyptus globulus</i>	31	Good	Fair	Very good	Tree will be in the way of new roadway construction, and it is not cost effective to transplant	REMOVE
91	Avocado	<i>Persea americana</i>	14, 14.5, 15, 24	Good	Fair	Excellent	Decay, cavities, old tear -- overpruned	PROTECT AND PRESERVE
92	Avocado	<i>Persea americana</i>	20	Good	Fair	Excellent	Decay, cavities, lean, old tear -- overpruned. Tree will be in the way of new construction and it is not cost effective to transplant	REMOVE
93	Avocado	<i>Persea americana</i>	17.5, 23	Good	Good	Excellent	Small cavities with bee repellent; overpruned	PROTECT AND PRESERVE
94	Camphor	<i>Cinnamomum camphora</i>	36	Fair	Good	Excellent	Severely overpruned; leaves are curling -- probably due to stress from pruning.	PROTECT AND PRESERVE
95	Myrtle	<i>Myrtus communis</i>	4, 4.5	Good	Good	Excellent		TRANSPLANT
96	Laurel-leafed snailseed	<i>Cocculus laurifolius</i>	17	Good	Good	Very good	Needs minimal amount of deadwooding. Tree will be in the way of new construction and it is not cost effective to transplant	REMOVE
97	California fan palm	<i>Washingtonia filifera</i>	30' BT	Good	Good	Very good	Decay, cavities, lean, old tear -- overpruned. Tree will be in the way of new construction and it is not cost effective to transplant	REMOVE
98	Camphor	<i>Cinnamomum camphora</i>	17	Good	Good	Very good	Needs minimal amount of deadwooding. Tree will be in the way of new construction and it is not cost effective to transplant	REMOVE
99	California fan palm	<i>Washingtonia filifera</i>	55' BT	Good	Good	Excellent	Needs minimal amount of deadwooding. Tree will be in the way of new construction and it is not cost effective to transplant	REMOVE
100	California bay laurel	<i>Umbellularia californica</i>	8, 11, 14	Good	Good	Very good	May be in early decline. Shrub will be in the way of new construction and is not cost effective to transplant	REMOVE
101	California bay laurel	<i>Umbellularia californica</i>	9, 12.5	Good	Fair	Very good	May be in early decline. Shrub will be in the way of new construction and is not cost effective to transplant	REMOVE
102	Victorian box	<i>Pittosporum undulatum</i>	9, 10, 10.5, 11	Good	Good	Excellent	Very nice old pittosporum. Shrub will be in the way of new construction and is not cost effective to transplant	REMOVE
103	Viburnum	<i>Viburnum sp.</i>	8	Good	Fair	Fair	Decay is not a major defect. Shrub will be in the way of new construction and is not cost effective to transplant	REMOVE
104	Viburnum	<i>Viburnum sp.</i>	9.5, 10, 11 @ 3'	Good	Good	Good	Shrub will be in the way of new roadway construction, and it is not cost effective to transplant	REMOVE
105	Viburnum	<i>Viburnum sp.</i>	11	Good	Good	Fair	Shrub will be in the way of new roadway construction, and it is not cost effective to transplant	REMOVE
106	Victorian box	<i>Pittosporum undulatum</i>	7	Good	Good	Good	Shrub will be in the way of new roadway construction, and it is not cost effective to transplant	REMOVE

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Tree #	Common Name	Botanical Name	Diameter at 4.5 feet (dbh) in inches	Condition Rating	Structure Rating	Suitability for Preservation	Comments	Disposition
107	Viburnum	<i>Viburnum sp.</i>	4, 5.5 @ 3'	Good	Good	Good	Shrub will be in the way of new roadway construction, and it is not cost effective to transplant	REMOVE
108	California bay laurel	<i>Umbellularia californica</i>	9.5	Good	Good	Good	Tree will be in the way of new roadway construction, and it is not cost effective to transplant	REMOVE
109	Sweet olive	<i>Osmanthus fragrans</i>	1.5, 1.5, 1	Good	Good	Good	Tree will be in the way of new roadway construction, and it is not cost effective to transplant	REMOVE
110	Sweet olive	<i>Osmanthus fragrans</i>	2, 3	Good	Good	Good	Tree will be in the way of new roadway construction, and it is not cost effective to transplant	REMOVE
111	Victorian box	<i>Pittosporum undulatum</i>	6, 8.5	Good	Good	Good	Tree will be in the way of new roadway construction, and it is not cost effective to transplant	REMOVE
112	Victorian box	<i>Pittosporum undulatum</i>	10	Good	Good	Good	Tree will be in the way of new roadway construction, and it is not cost effective to transplant	REMOVE
113	California pepper	<i>Schinus molle</i>	44	Good	Poor	Good	Cavity N/W side _ old tear S/W side with fruiting bodies. Recently pruned. Lean to west. Monitor.	REMOVE
114	California pepper	<i>Schinus molle</i>	23.5	Good	Poor	Good	Some roots on east side are decayed and cut. Recently pruned. Monitor. Tree will be in the way of new roadway construction, and it is not cost effective to transplant.	REMOVE
115	California pepper	<i>Schinus molle</i>	25	Good	Fair	Excellent	Galls are not major defects.	PROTECT AND PRESERVE
116	California pepper	<i>Schinus molle</i>	23	Good	Fair	Excellent	Lean	PROTECT AND PRESERVE
117	California pepper	<i>Schinus molle</i>	29	Good	Fair	Excellent	Lean	PROTECT AND PRESERVE
118	California pepper	<i>Schinus molle</i>	29	Good	Fair	Excellent	Lean	PROTECT AND PRESERVE
119	California pepper	<i>Schinus molle</i>	30.5	Good	Fair	Excellent	Lean	PROTECT AND PRESERVE
120	Chinaberry	<i>Melia azedarach</i>	6 @ 4", 10, 9, 10, 8, 7, 7, 13, 10, 12, 12, 11, 14	Good	Fair	Good	Thin and lighten. Do not top. Tree will be in the way of new roadway construction, and it is not cost effective to transplant.	REMOVE
121	Mexican fan palm	<i>Washingtonia robusta</i>	5' BT	Good	Good	Fair	Volunteer specimen -- could be removed	TRANSPLANT
122	California pepper	<i>Schinus molle</i>	7.5	Good	Fair	Fair	Stump sprout -- really should be removed. Tree will be in the way of new roadway construction, and it is not cost effective to transplant.	REMOVE
123	Mexican fan palm	<i>Washingtonia robusta</i>	6' BT	Good	Good	Fair	Volunteer specimen -- could be removed	TRANSPLANT
124	California pepper	<i>Schinus molle</i>	33	Good	Poor	Fair	Vertical column of decay extending from base. Prune NOW. Monitor. Tree will be in the way of new roadway construction, and it is not cost effective to transplant.	REMOVE

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Tree #	Common Name	Botanical Name	Diameter at 4.5 feet (dbh) in inches	Condition Rating	Structure Rating	Suitability for Preservation	Comments	Disposition
125	California pepper	<i>Schinus molle</i>	29	Good	Poor	Fair	Vertical column of decay extending from base. Prune NOW. Monitor. Tree will be in the way of new roadway construction, and it is not cost effective to transplant.	REMOVE
126	California pepper	<i>Schinus molle</i>	21.5	Good	Fair	Excellent	Lean and possible girdling roots	PROTECT AND PRESERVE
127	California pepper	<i>Schinus molle</i>	21	Good	Fair	Excellent	Basal decay on windward side -- OK due recent pruning.	PROTECT AND PRESERVE
128	Laurel-leaved snailseed	<i>Cocculus laurifolius</i>	10.5, 11	Good	Good	Excellent	Thin and deadwood. Tree will be in the way of new roadway construction, and it is not cost effective to transplant	REMOVE
129	Laurel-leaved snailseed	<i>Cocculus laurifolius</i>	10, 17.5	Good	Good	Excellent	Thin and deadwood. Tree will be in the way of new roadway construction, and it is not cost effective to transplant	REMOVE
130	Laurel-leaved snailseed	<i>Cocculus laurifolius</i>	2.5	Good	Good	Excellent	Thin and deadwood	PROTECT AND PRESERVE
131	Laurel-leaved snailseed	<i>Cocculus laurifolius</i>	14	Good	Good	Excellent	Thin and deadwood	PROTECT AND PRESERVE
132	Laurel-leaved snailseed	<i>Cocculus laurifolius</i>	9, 12	Good	Good	Excellent	Overpruned recently -- please do not prune other specimens this heavily!	PROTECT AND PRESERVE
133	Texas privet	<i>Ligustrum lucidum</i>	7 @ base	Good	Good	Very good	Tree will be in the way of new roadway construction, and it is not cost effective to transplant	REMOVE
134	California pepper	<i>Schinus molle</i>	13 @ 3'	Good	Good	Excellent	Decayed small root is not a major defect due to small size of tree.	PROTECT AND PRESERVE
135	Blue gum	<i>Eucalyptus globulus</i>	24	Good	Fair	Fair	Basal cavity south side -- Monitor and/or use Resistograph to evaluate amount of decay. However, tree will be in the way of new roadway construction, and it is not cost effective to transplant	REMOVE
136	Victorian box	<i>Pittosporum undulatum</i>	10.5 @ 3'	Good	Good	Good	Will be asymmetric once house is gone. Shrub will be in the way of new roadway construction, and it is not cost effective to transplant	REMOVE
137	Blue gum	<i>Eucalyptus globulus</i>	23	Good	Fair	Very good	Lean	PROTECT AND PRESERVE
138	Blue gum	<i>Eucalyptus globulus</i>	41	Good	Fair	Very good	Overmature	REMOVE
139	Blue gum	<i>Eucalyptus globulus</i>	35	Good	Fair	Very good	Overmature	REMOVE
140	California bay laurel	<i>Umbellularia californica</i>	11	Good	Good	Excellent		PROTECT AND PRESERVE
141	California bay laurel	<i>Umbellularia californica</i>	11, 14	Good	Good	Excellent		PROTECT AND PRESERVE
142	California bay laurel	<i>Umbellularia californica</i>	8	Good	Good	Excellent		PROTECT AND PRESERVE
143	California bay laurel	<i>Umbellularia californica</i>	6, 10, 15	Good	Good	Excellent		PROTECT AND PRESERVE
144	Blue gum	<i>Eucalyptus globulus</i>	34	Good	Fair	Very good	Overmature	REMOVE
145	Blue gum	<i>Eucalyptus globulus</i>	39	Good	Fair	Very good	Overmature	REMOVE

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Tree #	Common Name	Botanical Name	Diameter at 4.5 feet (dbh) in inches	Condition Rating	Structure Rating	Suitability for Preservation	Comments	Disposition
146	Fruitless mulberry	<i>Morus alba</i> 'Fruitless'	12.5	Good	Good	Fair	Topped -- no foliage is left	REMOVE
147	Blue gum	<i>Eucalyptus globulus</i>	37	Good	Fair	Very good	Overmature	REMOVE
148	Blue gum	<i>Eucalyptus globulus</i>	37	Good	Fair	Very good	Overmature	REMOVE
149	Blue gum	<i>Eucalyptus globulus</i>	32	Good	Fair	Very good	Overmature	REMOVE
150	California bay laurel	<i>Umbellularia californica</i>	8, 8.5	Good	Good	Excellent	Tree will be in the way of new construction, and it is not cost effective to transplant	REMOVE
151	Blue gum	<i>Eucalyptus globulus</i>	19	Good	Good	Very good	Young, however, tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
152	Blue gum	<i>Eucalyptus globulus</i>	27	Good	Fair	Very good	Overmature	REMOVE
153	Blue gum	<i>Eucalyptus globulus</i>	24	Good	Fair	Very good	Overmature	REMOVE
154	California bay laurel	<i>Umbellularia californica</i>	12	Good	Good	Excellent	Tree will be in the way of new construction, and it is not cost effective to transplant	REMOVE
155	California bay laurel	<i>Umbellularia californica</i>	13, 18	Good	Good	Excellent	Tree will be in the way of new construction, and it is not cost effective to transplant	REMOVE
156	California bay laurel	<i>Umbellularia californica</i>	11	Good	Fair	Excellent	Trunk cavity. Tree will be in the way of new construction, and it is not cost effective to transplant	REMOVE
157	California bay laurel	<i>Umbellularia californica</i>	10, 12.5	Good	Good	Excellent		PROTECT AND PRESERVE
158	Aleppo pine	<i>Pinus halepensis</i>	14 @ 3'	Good	Fair	Poor	Tree will be in the way of new construction, and it is not healthy enough to transplant	REMOVE
159	Crape myrtle	<i>Lagerstroemia indica</i>	3 @ 3'	Dormant	Good	Fair	Girdled base due to weedeater; girdling nursery tie	REMOVE
160	Crape myrtle	<i>Lagerstroemia indica</i>	4 @ 3'	Dormant	Fair	Fair	Girdled base due to weedeater	REMOVE
161	Italian cypress	<i>Cupressus sempervirens</i>	8	Good	Good	Good	Tree will be in the way of new construction, and it is not cost effective to transplant	REMOVE
162	Italian cypress	<i>Cupressus sempervirens</i>	10	Good	Good	Good	Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
163	Italian cypress	<i>Cupressus sempervirens</i>	4	Good	Fair	Good	Decay column is not a major defect -- small tree. Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
164	Italian cypress	<i>Cupressus sempervirens</i>	9	Good	Good	Good	Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
165	Italian cypress	<i>Cupressus sempervirens</i>	7 @ 3'	Good	Good	Good	Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
166	Italian cypress	<i>Cupressus sempervirens</i>	8	Good	Good	Good	Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
167	Italian cypress	<i>Cupressus sempervirens</i>	10.5	Good	Good	Good	Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
168	Italian cypress	<i>Cupressus sempervirens</i>	12.5	Good	Good	Good	Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE

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Tree #	Common Name	Botanical Name	Diameter at 4.5 feet (dbh) in inches	Condition Rating	Structure Rating	Suitability for Preservation	Comments	Disposition
169	Eugenia	<i>Syzigium paniculatum</i>	3	Good	Good	Fair	Not high value species. Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
170	Eugenia	<i>Syzigium paniculatum</i>	3, 3	Good	Good	Fair	Not high value species. Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
171	Eugenia	<i>Syzigium paniculatum</i>	4	Good	Good	Fair	Not high value species. Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
172	American sweetgum	<i>Liquidambar styraciflua</i>	16	Good	Fair	Fair	Topped	REMOVE
173	American sweetgum	<i>Liquidambar styraciflua</i>	22	Good	Fair	Fair	Topped + kinked root	REMOVE
174	Silver maple	<i>Acer saccharinum</i>	24	Poor	Poor	Poor	Remove due to extensive decay	REMOVE
175	California sycamore	<i>Platanus racemosa</i>	32	Good	Fair	Fair	Decay in main crotch -- tree could be restored. However, tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
176	Persimmon	<i>Diospyros kaki</i>	9.5	Good	Good	Excellent	Great tree	TRANSPLANT
177	Chinaberry	<i>Melia azedarach</i>	10, 13	Good	Fair	Good	Not high value species. Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
178	Blue gum	<i>Eucalyptus globulus</i>	7, 11, 12	Good	Fair	Good	Need wood removed to fully evaluate; topped.	REMOVE
179	Chinaberry	<i>Melia azedarach</i>	19	Good	Fair	Fair	Not high value species. Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
180	Chinaberry	<i>Melia azedarach</i>	6.5, 7.5	Good	Fair	Fair	Not high value species. Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
181	Chinaberry	<i>Melia azedarach</i>	25	Good	Fair	Poor	Not high value species. Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
182	Chinaberry	<i>Melia azedarach</i>	10.5	Good	Poor	Poor	50% dead	REMOVE
183	Fruitless mulberry	<i>Morus alba 'Fruitless'</i>	27	Good	Fair	Fair to good	Needs restorative pruning; verify species in spring. However, tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
184	Fruitless mulberry	<i>Morus alba 'Fruitless'</i>	25	Good	Fair	Fair to good	Needs restorative pruning; verify species in spring. However, tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
185	Blue gum	<i>Eucalyptus globulus</i>	25	Good	Poor	Poor	Decayed roots -- remove tree	REMOVE
186	Blue gum	<i>Eucalyptus globulus</i>	17	Good	Poor	Poor	Decayed trunk and roots -- remove tree	REMOVE
187	Edible fig	<i>Ficus carica</i>	14.5 @ 2'	Good	Good	Very good		TRANSPLANT

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Tree #	Common Name	Botanical Name	Diameter at 4.5 feet (dbh) in inches	Condition Rating	Structure Rating	Suitability for Preservation	Comments	Disposition
188	Arizona ash	<i>Fraxinus velutina</i>	8	Fair	Good	Fair to good	Topped	REMOVE
189	Blue gum	<i>Eucalyptus globulus</i>	15	Good	Fair	Very good	Young, however, tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
190	Blue gum	<i>Eucalyptus globulus</i>	35 @ 3'	Good	Fair	Very good		PROTECT AND PRESERVE
191	Fruitless mulberry	<i>Morus alba</i> 'Fruitless'	12, 12	Good	Poor	Poor	Topped	REMOVE
192	Fruitless mulberry	<i>Morus alba</i> 'Fruitless'	6, 8	Good	Poor	Poor	Topped	REMOVE
193	Pecan	<i>Carya illinoensis</i>	10.5	Dormant	Good	Good	Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
194	Blue gum	<i>Eucalyptus globulus</i>	11	Good	Fair	Fair	Lean + no buffer, tree will be in the way of new construction, and it is not cost effective to transplant	REMOVE
195	Plum tree	<i>Prunus domestica</i>	10	Dormant	Poor	Poor	Dead	REMOVE
196	Blue gum	<i>Eucalyptus globulus</i>	35	Good	Fair	Very good	In windrow	PROTECT AND PRESERVE
197	Blue gum	<i>Eucalyptus globulus</i>	27	Good	Fair	Very good	In windrow	PROTECT AND PRESERVE
198	Blue gum	<i>Eucalyptus globulus</i>	14	Fair	Fair	Fair	50% dead -- remove deadwood or remove tree. However, tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
199	Blue gum	<i>Eucalyptus globulus</i>	14	Good	Fair	Very good		PROTECT AND PRESERVE
200	Blue gum	<i>Eucalyptus globulus</i>	18 @ 2'	Good	Poor	Poor	Decayed	REMOVE
201	Ash	<i>Fraxinus sp.</i>	12	Dormant	Poor	Poor	History of breakage. Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
202	Blue gum	<i>Eucalyptus globulus</i>	16	Good	Fair	Good	Lean plus heavy canopy to south -- prune if tree is to be preserved	REMOVE
203	Blue gum	<i>Eucalyptus globulus</i>	26	Good	Fair	Very good	In windrow	PROTECT AND PRESERVE
204	Blue gum	<i>Eucalyptus globulus</i>	16	Good	Fair	Very good	In windrow	PROTECT AND PRESERVE
205	Blue gum	<i>Eucalyptus globulus</i>	14	Good	Fair	Very good		PROTECT AND PRESERVE
206	Blue gum	<i>Eucalyptus globulus</i>	17	Good	Fair to poor	Fair	Cavity	PROTECT AND PRESERVE
207	Unknown species	<i>Unknown species</i>	21 @ 1'	Fair	Fair	Fair	May be hackberry (Celtis sp). Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
208	Blue gum	<i>Eucalyptus globulus</i>	19	Good	Fair	Very good		PROTECT AND PRESERVE
209	Fruitless mulberry	<i>Morus alba</i> 'Fruitless'	15 @ base	Good	Fair	Poor	Topped repeatedly	REMOVE
210	Fruitless mulberry	<i>Morus alba</i> 'Fruitless'	10 @ base	Good	Fair	Poor	Topped repeatedly	REMOVE

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Tree #	Common Name	Botanical Name	Diameter at 4.5 feet (dbh) in inches	Condition Rating	Structure Rating	Suitability for Preservation	Comments	Disposition
211	Algerian ivy tree	<i>Hedera helix</i>	6 @ base	Good	Good	Poor	Novelty. Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
212	Aleppo pine	<i>Pinus halepensis</i>	44 @ 2'	Good	Good	Fair to good	Nice form	PROTECT AND PRESERVE
213	Avocado	<i>Persea americana</i>	18	Fair	Fair	Fair	Drought stress	REMOVE
214	Shamel ash	<i>Fraxinus uhdei</i>	8	Good	Good	Poor	Topped	REMOVE
215	Blue gum	<i>Eucalyptus globulus</i>	28	Good	Good	Very good		PROTECT AND PRESERVE
216	Orange tree	<i>Citrus sinensis</i>	6 @ 2'	Fair	Good	Good	Drought stress	PROTECT AND PRESERVE
217	Avocado	<i>Persea americana</i>	19	Fair	Good	Good	Drought stress. Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
218	Avocado	<i>Persea americana</i>	8.5, 9	Fair to poor	Fair	Fair to poor	Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
219	Pecan	<i>Carya illinoensis</i>	21	Good	Fair	Poor	Topped	REMOVE
220	Fruitless mulberry	<i>Morus alba</i> 'Fruitless'	2.5 @ 3'	Good	Fair	Poor	Topped	REMOVE
221	White sapote	<i>Casimiroa edulis</i>	14	Fair	Good	Very good	Drought stress	PROTECT AND PRESERVE
222	Avocado	<i>Persea americana</i>	15.5	Good	Good	Very good	Drought stress	PROTECT AND PRESERVE
223	Japanese black pine	<i>Pinus thunbergiana</i>	15	Good	Good	Very good	Nice tree -- symmetrical	PROTECT AND PRESERVE
224	London plane tree	<i>Platanus x acerifolia</i>	14	Dormant	Good	Very good		PROTECT AND PRESERVE
225	Pyracantha	<i>Pyracantha coccinea</i>	7.5	Good	Good	Very good	Nice little tree - but topped. Not cost effective to transplant	REMOVE
226	Fruitless mulberry	<i>Morus alba</i> 'Fruitless'	17	Dormant	Fair	Poor	Topped	REMOVE
227	Fruitless mulberry	<i>Morus alba</i> 'Fruitless'	10	Dormant	Fair	Poor	Topped	REMOVE
228	Fruitless mulberry	<i>Morus alba</i> 'Fruitless'	24	Dormant	Poor	Poor	Topped	REMOVE
229	American sweetgum	<i>Liquidambar styraciflua</i>	20	Good	Poor	Poor	Huge cavity in main crotch -- remove tree	REMOVE
230	Carob	<i>Ceratonia siliqua</i>	15	Good	Fair	Fair	Topped + lean, tree will be in the way of new construction, and it is not cost effective to transplant	REMOVE
231	American sweetgum	<i>Liquidambar styraciflua</i>	24	Good	Good	Very good	Nice tree	PROTECT AND PRESERVE
232	Fruitless mulberry	<i>Morus alba</i> 'Fruitless'	17	Dormant	Fair	Poor	Topped	REMOVE
233	American arborvitae	<i>Thuja occidentalis</i>	7.5 @ base	Good	Good	Fair	Species is out of context. Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
234	Fruitless mulberry	<i>Morus alba</i> 'Fruitless'	5, 8	Dormant	Fair	Poor	Topped	REMOVE

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Tree #	Common Name	Botanical Name	Diameter at 4.5 feet (dbh) in inches	Condition Rating	Structure Rating	Suitability for Preservation	Comments	Disposition
235	Orange tree	<i>Citrus sinensis</i>	6	Good	Fair	Fair	Column of decay, tree will be in the way of new construction, and it is not cost effective to transplant	REMOVE
236	Fruitless mulberry	<i>Morus alba</i> 'Fruitless'	5.5, 5.5	Dormant	Fair	Poor	Topped	REMOVE
237	Loquat	<i>Eriobotrya japonica</i>	5 @ 1'	Good	Good	Fair	Species is not high value, tree will be in the way of new construction, and it is not cost effective to transplant	REMOVE
238	Loquat	<i>Eriobotrya japonica</i>	5.5 @ 1'	Good	Good	Fair	Species is not high value, tree will be in the way of new construction, and it is not cost effective to transplant	REMOVE
239	Loquat	<i>Eriobotrya japonica</i>	7 @ 1'	Good	Poor	Poor	Species is not high value, tree will be in the way of new construction, and it is not cost effective to transplant	REMOVE
240	Avocado	<i>Persea americana</i>	16.5	Good	Fair	Fair	History of breakage. Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
241	Fruitless mulberry	<i>Morus alba</i> 'Fruitless'	10 @ 2'	Dormant	Fair	Poor	Topped	REMOVE
242	American sweetgum	<i>Liquidambar styraciflua</i>	4.5 @ 2'	Dormant	Fair	Poor	Codominant stems; small tree. Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
243	American sweetgum	<i>Liquidambar styraciflua</i>	31	Good	Good	Very good	Needs ivy removed to evaluate properly	PROTECT AND PRESERVE
244	Plum tree	<i>Prunus domestica</i>	11	Dormant	Poor	Poor	May be in decline -- decay is visible, tree will be in the way of new construction, and it is not cost effective to transplant	REMOVE
245	Lemon tree	<i>Citrus limon</i>	11.5 @ base	Fair	Good	Very good	Drought stress -- water immediately!	PROTECT AND PRESERVE
246	Loquat	<i>Eriobotrya japonica</i>	6	Good	Fair	Poor	Species is not high value. Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
247	Chinese elm	<i>Ulmus parvifolia</i>	13	Dormant	Fair	Poor	Topped	REMOVE
248	Orange tree	<i>Citrus sinensis</i>	6.5	Fair	Good	Good	Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
249	Plum tree	<i>Prunus domestica</i>	7	Dormant	Good	Poor	In decline, tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
250	Orange tree	<i>Citrus sinensis</i>	1.5, 3, 5 @ 3'	Good	Good	Good	Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
251	Blue gum	<i>Eucalyptus globulus</i>	27	Good	Fair	Very good	Could keep depending on future use	PROTECT AND PRESERVE
252	Blue gum	<i>Eucalyptus globulus</i>	32	Good	Fair	Very good	Could keep depending on future use	PROTECT AND PRESERVE
253	Blue gum	<i>Eucalyptus globulus</i>	44	Good	Fair	Very good	Could keep depending on future use. Feb 2008 review determined the tree dead and a hazard.	REMOVE
254	Blue gum	<i>Eucalyptus globulus</i>	18.5	Fair	Fair	Good	Needs ivy removed to evaluate properly. Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE

Tree Inventory at Guasti Villa, Ontario, California

Tree #	Common Name	Botanical Name	Diameter at 4.5 feet (dbh) in inches	Condition Rating	Structure Rating	Suitability for Preservation	Comments	Disposition
255	Blue gum	<i>Eucalyptus globulus</i>	~ 40	Good	Fair	Fair	Needs ivy removed, located under power lines, leaning, and tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
256	Camphor	<i>Cinnamomum camphora</i>	7, 9 @ 3'	Good	Good	Fair	Misshapen, tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
257	Red gum	<i>Eucalyptus camaldulensis</i>	12.5	Good	Fair	Poor	Codominant stems; remove tree	REMOVE
258	Blue gum	<i>Eucalyptus globulus</i>	20	Good	Fair	Good	Tree will be in the way of new construction, and it is not cost effective to transplant	REMOVE
259	Peach tree	<i>Prunus persica</i>	12	Dormant	Fair	Poor	Old tree; beetles; finite lifespan, tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
260	California pepper	<i>Schinus molle</i>	23	Good	Good	Excellent	Nice tree -- needs pruning	PROTECT AND PRESERVE
261	Red gum	<i>Eucalyptus camaldulensis</i>	21	Good	Fair	Fair	Tree will be in the way of new construction, and it is not cost effective to transplant	REMOVE
262	Avocado	<i>Persea americana</i>	20	Good	Fair	Very good	Nice tree -- needs water	PROTECT AND PRESERVE
263	Blue gum	<i>Eucalyptus globulus</i>	32	Good	?	Good	Can't evaluate due to haunted house, tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
264	Fruitless mulberry	<i>Morus alba</i> 'Fruitless'	12.5	Good	Fair	Poor	Topped	REMOVE
265	Fruitless mulberry	<i>Morus alba</i> 'Fruitless'	13	Good	Fair	Poor	Topped	REMOVE
266	Fruitless mulberry	<i>Morus alba</i> 'Fruitless'	14.5	Good	Fair	Poor	Topped	REMOVE
267	Red gum	<i>Eucalyptus camaldulensis</i>	22	Fair	Fair	Fair to good	Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
268	Red gum	<i>Eucalyptus camaldulensis</i>	6, 3 @ 4", 2 @ 2", 2 @ 1"	Fair	Fair	Poor	Stump sprout -- preserve depending on use,	REMOVE
269	Red gum	<i>Eucalyptus camaldulensis</i>	20	Fair	Fair	Fair to good	Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
270	California pepper	<i>Schinus molle</i>	17	Good	Good	Excellent	Nice tree	PROTECT AND PRESERVE
271	Blue gum	<i>Eucalyptus globulus</i>	25	Good	Fair	Good	Nice tree	PROTECT AND PRESERVE
272	Blue gum	<i>Eucalyptus globulus</i>	31	Good	Fair	Good	Nice tree	PROTECT AND PRESERVE
273	Fruitless mulberry	<i>Morus alba</i> 'Fruitless'	18	Dormant	Fair	Poor	Topped	REMOVE
274	Loquat	<i>Eriobotrya japonica</i>	6	Good	Good	Poor	Species is not high value, tree will be in the way of new construction, and it is not cost effective to transplant	REMOVE
275	English walnut	<i>Juglans regia</i>	26.5 @ 3'	Dormant	Fair	Fair	Decay due to massive topping -- could keep depending on future use. Decided that tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE

Tree Inventory at Guasti Villa, Ontario, California

Tree #	Common Name	Botanical Name	Diameter at 4.5 feet (dbh) in inches	Condition Rating	Structure Rating	Suitability for Preservation	Comments	Disposition
276	Blue gum	<i>Eucalyptus globulus</i>	40	Good	Fair	Good	Overmature	REMOVE
277	Blue gum	<i>Eucalyptus globulus</i>	26	Good	Fair	Good	Overmature	REMOVE
278	Palm	<i>Phoenix sp.</i>	6' BT	Good	Good	Excellent	Needs species verified.	TRANSPLANT
279	Fruitless mulberry	<i>Morus alba</i> 'Fruitless'	25	Dormant	Poor	Poor	Topped + decayed -- remove tree	REMOVE
280	Fruitless mulberry	<i>Morus alba</i> 'Fruitless'	14	Dormant	Fair	Poor	Topped	REMOVE
281	Apricot	<i>Prunus armeniaca</i>	10	Dormant	Good	Fair	Old tree, tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
282	Texas privet	<i>Ligustrum lucidum</i>	10.5	Good	Good	Fair	Species is not high value, tree will be in the way of new construction, and it is not cost effective to transplant	REMOVE
283	Texas privet	<i>Ligustrum lucidum</i>	8.5	Poor	Poor	Poor	Species is not high value, tree will be in the way of new construction, and it is not cost effective to transplant	REMOVE
284	Fruitless mulberry	<i>Morus alba</i> 'Fruitless'	11	Dormant	Fair	Poor	Topped, tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
285	Avocado	<i>Persea americana</i>	10.5, 18	Good	Good	Very good	Nice tree	PROTECT AND PRESERVE
286	Loquat	<i>Eriobotrya japonica</i>	5	Good	Good	Poor	Species is not high value, tree will be in the way of new construction, and it is not cost effective to transplant	REMOVE
287	Monterey pine	<i>Pinus radiata</i>	23	Good	Good	Fair	Short lifespan, tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
288	Shamel ash	<i>Fraxinus uhdei</i>	24	Dormant	Fair	Poor	Topped	REMOVE
289	Fruitless mulberry	<i>Morus alba</i> 'Fruitless'	14	Dormant	Fair	Poor	Topped	REMOVE
290	Fruitless mulberry	<i>Morus alba</i> 'Fruitless'	17	Dormant	Fair	Poor	Topped	REMOVE
291	Avocado	<i>Persea americana</i>	10 @ 1'	Good	Fair	Fair	A little decay -- OK -- small tree. Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
292	Fruitless mulberry	<i>Morus alba</i> 'Fruitless'	17	Dormant	Poor	Poor	Topped	REMOVE
293	California sycamore	<i>Platanus racemosa</i>	18	Good	Fair	Fair to good	Topped but salvageable. Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
294	California pepper	<i>Schinus molle</i>	28	Good	Fair	Excellent	Recently lost large limb -- needs pruning	PROTECT AND PRESERVE
295	Tree of heaven	<i>Ailanthus altissima</i>	9, 10, 11, 12	Dormant	Good	Poor	Invasive species -- remove	REMOVE
296	Camphor	<i>Cinnamomum camphora</i>	14.5	Good	Good	Fair to poor	Misshapen, tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
297	Fruitless mulberry	<i>Morus alba</i> 'Fruitless'	10	Dormant	Poor	Poor	Topped	REMOVE

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Tree #	Common Name	Botanical Name	Diameter at 4.5 feet (dbh) in inches	Condition Rating	Structure Rating	Suitability for Preservation	Comments	Disposition
298	Tree of heaven	<i>Ailanthus altissima</i>	11	Dormant	Good	Poor	Invasive species -- remove	REMOVE
299	Avocado	<i>Persea americana</i>	9, 11	Fair	Fair	Fair to poor	Misshapen, tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
300	Fruitless mulberry	<i>Morus alba</i> 'Fruitless'	19, 24	Dormant	Poor	Poor	Topped	REMOVE
301	Moreton bay fig	<i>Ficus macrophylla</i>	19	Good	Fair	Poor	Decayed -- remove	REMOVE
302	Avocado	<i>Persea americana</i>	9	Fair	Fair	Poor	Small -- remove	REMOVE
303	Avocado	<i>Persea americana</i>	7.5, 11	Fair to poor	Poor	Poor	Decayed	REMOVE
304	California pepper	<i>Schinus molle</i>	32	Good	Fair	Excellent	Needs pruning	PROTECT AND PRESERVE
305	Plum tree	<i>Prunus domestica</i>	9.5	Dormant	Good	Good	Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
306	California juniper	<i>Juniperus californica</i>	7, 12.5 @ 1'	Good	Good	Excellent	Nice little tree -- would not relocate well	REMOVE
307	California pepper	<i>Schinus molle</i>	16	Good	Fair	Good	Asymmetrical; young; lean. Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
308	Shamel ash	<i>Fraxinus uhdei</i>	17.5	Good	Fair	Good	Topped	REMOVE
309	Chinese elm	<i>Ulmus parvifolia</i>	16	Dormant	Good	Fair	Species is not high value, tree will be in the way of new construction, and it is not cost effective to transplant	REMOVE
310	Fruitless mulberry	<i>Morus alba</i> 'Fruitless'	17	Dormant	Poor	Poor	Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
311	Olive tree	<i>Olea europaea</i>	2 @ 3", 2 @ 2", 2 @ 1"	Good	Fair	Fair	A lot of decay for such a young tree -- remove	REMOVE
312	Olive tree	<i>Olea europaea</i>	4 @ 3", 3 @ 2", 1 @ 1"	Good	Fair	Fair	A lot of decay for such a young tree -- remove	REMOVE
313	Pomegranate	<i>Punica granatum</i>	3 @ 4"	Dormant	Good	Poor	Mishapen. Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
314	Blue gum	<i>Eucalyptus globulus</i>	22	Good	Fair	Good	Can keep depending on future use. Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
315	Fruitless mulberry	<i>Morus alba</i> 'Fruitless'	14	Dormant	Fair	Poor	Topped	REMOVE
316	Blue gum	<i>Eucalyptus globulus</i>	20.5	Fair	Fair	Fair	Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
317	Red gum	<i>Eucalyptus camaldulensis</i>	25	Good	Fair	Fair	Lean. Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
318	Blue gum	<i>Eucalyptus globulus</i>	38	Good	Fair	Good	Old and nice tree	PROTECT AND PRESERVE
319	Kumquat	<i>Fortunella margarita</i>	2, 4.5	Good	Fair	Fair	Decay	REMOVE

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Tree #	Common Name	Botanical Name	Diameter at 4.5 feet (dbh) in inches	Condition Rating	Structure Rating	Suitability for Preservation	Comments	Disposition
320	Red gum	<i>Eucalyptus camaldulensis</i>	7, 11	Good	Fair	Fair	Poor main crotch, Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
321	Red gum	<i>Eucalyptus camaldulensis</i>	14	Good	Good	Good	If preserved, be careful when removing concrete. Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
322	Blue gum	<i>Eucalyptus globulus</i>	29	Good	Fair	Good	Old and nice tree. Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
323	Blue gum	<i>Eucalyptus globulus</i>	35	Good	Fair	Good	Old and nice tree. Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
324	Bottle brush	<i>Callistemon citrinus</i>	10.5 @ 2'	Good	Good	Very good	Too close to building to preserve	REMOVE
325	Italian cypress	<i>Cupressus sempervirens</i>	16 @ 3'	Fair	Good	Very good	Too close to building to preserve	REMOVE
326	Long-leafed willowwood	<i>Podocarpus henkelii</i>	15 @ 2'	Good	Good	Very good		PROTECT AND PRESERVE
327	Windmill palm	<i>Trachycarpus fortunei</i>	12' BT	Good	Good	Excellent	Could be relocated	TRANSPLANT
328	Windmill palm	<i>Trachycarpus fortunei</i>	14' BT	Good	Good	Excellent	Could be relocated	TRANSPLANT
329	Red gum	<i>Eucalyptus camaldulensis</i>	22	Good	Good	Very good	Too close to building to preserve	REMOVE
330	Italian cypress	<i>Cupressus sempervirens</i>	9	Good	Good	Very good	Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
331	Crape myrtle	<i>Lagerstroemia indica</i>	7 @ 3'	Dormant	Good	Excellent	Could be relocated	TRANSPLANT
332	Blue gum	<i>Eucalyptus globulus</i>	28	Good	Fair	Good	Old and nice tree	PROTECT AND PRESERVE
333	Crape myrtle	<i>Lagerstroemia indica</i>	8 @ 3'	Dormant	Good	Excellent	Could be relocated; careful if remove galvanized pipe. Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
334	Silver dollar gum	<i>Eucalyptus polyanthemos</i>	29	Good	Good	Very good	Nice tree	PROTECT AND PRESERVE
335	Red gum	<i>Eucalyptus camaldulensis</i>	21	Fair	Fair	Fair to good	Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
336	Bottle brush	<i>Callistemon citrinus</i>	5.5, 8 @ 2'	Good	Good	Good	Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
337	Mexican fan palm	<i>Washingtonia robusta</i>	65' BT	Good	Good	Excellent	Could be relocated	TRANSPLANT
338	Modesto ash	<i>Fraxinus velutina</i> 'Modesto'	9, 10	Dormant	Fair to good	Very good	Topped	REMOVE
339	Shiny xylosma	<i>Xylosma congestum</i>	13	Good	Good	Excellent	Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
340	Modesto ash	<i>Fraxinus velutina</i> 'Modesto'	23.5	Dormant	Fair	Very good	History of breakage; OK to keep if is regularly maintained	REMOVE
341	Modesto ash	<i>Fraxinus velutina</i> 'Modesto'	23.5	Dormant	Fair to poor	Very good	Vertical cracks	REMOVE
342	Modesto ash	<i>Fraxinus velutina</i> 'Modesto'	25.5	Dormant	Fair to poor	Very good	Vertical cracks + history of breakage	REMOVE

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Tree #	Common Name	Botanical Name	Diameter at 4.5 feet (dbh) in inches	Condition Rating	Structure Rating	Suitability for Preservation	Comments	Disposition
343	Crape myrtle	<i>Lagerstroemia indica</i>	9.5 @ 3'	Dormant	Good	Very good	A little decay -- OK -- small tree. Tree will be in the way of new construction, and it is not cost effective to transplant.	TRANSPLANT
344	Modesto ash	<i>Fraxinus velutina</i> 'Modesto'	24	Dormant	Good	Very good	Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
345	Modesto ash	<i>Fraxinus velutina</i> 'Modesto'	26	Dormant	Fair	Good	History of breakage	REMOVE
346	Modesto ash	<i>Fraxinus velutina</i> 'Modesto'	27	Dormant	Good	Very good	History of breakage	REMOVE
347	Blue gum	<i>Eucalyptus globulus</i>	39	Good	Fair to poor	Good	Cavity south side -- OK if regularly maintained. Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
348	California fan palm	<i>Washingtonia filifera</i>	18' BT	Good	Good	Excellent		TRANSPLANT
349	Crape myrtle	<i>Lagerstroemia indica</i>	7.5 @ 3'	Dormant	Fair	Fair to good	Decay is OK due to species, however, tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
350	Crape myrtle	<i>Lagerstroemia indica</i>	8 @ 3'	Dormant	Fair	Excellent	Needs ivy removed to evaluate properly: Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
351	Olive tree	<i>Olea europaea</i>	9, 10.5, 10.5, 11	Good	Good	Excellent	Please do not introduce irrigation in new scheme. Not cost effective enough to transplant and will be in the way of new construction.	REMOVE
352	Italian cypress	<i>Cupressus sempervirens</i>	8	Good	Good	Excellent	Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
353	Italian cypress	<i>Cupressus sempervirens</i>	7.5	Good	Good	Excellent	Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
354	Italian cypress	<i>Cupressus sempervirens</i>	8	Good	Good	Excellent	Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
355	Italian cypress	<i>Cupressus sempervirens</i>	9.5	Good	Good	Excellent	Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
356	Orange tree	<i>Citrus sinensis</i>	11 @ 2'	Good	Good	Excellent	Nice old specimen.	PROTECT AND PRESERVE
357	Orange tree	<i>Citrus sinensis</i>	10.5 @ 2'	Good	Good	Excellent	Nice old specimen.	PROTECT AND PRESERVE
358	Orange tree	<i>Citrus sinensis</i>	7, 8.5 @ 3'	Good	Good	Excellent	Nice old specimen.	PROTECT AND PRESERVE
359	Orange tree	<i>Citrus sinensis</i>	10 @ 3'	Good	Fair to poor	Excellent	Nice old specimen; basal decay	PROTECT AND PRESERVE
360	Monterey pine	<i>Pinus radiata</i>	19	Good	Good	Good	Finite lifespan. Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
361	Edible fig	<i>Ficus carica</i>	8.5, 12, 16	Dormant	Fair	Excellent	Topped	REMOVE
362	Date palm	<i>Phoenix dactylifera</i>	30' BT	Good	Good	Excellent		TRANSPLANT
363	Date palm	<i>Phoenix dactylifera</i>	25' BT	Good	Good	Excellent		PROTECT AND PRESERVE
364	Date palm	<i>Phoenix dactylifera</i>	25' BT	Good	Good	Excellent		PROTECT AND PRESERVE
365	Date palm	<i>Phoenix dactylifera</i>	30' BT	Good	Good	Excellent		PROTECT AND PRESERVE

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Tree #	Common Name	Botanical Name	Diameter at 4.5 feet (dbh) in inches	Condition Rating	Structure Rating	Suitability for Preservation	Comments	Disposition
366	Date palm	<i>Phoenix dactylifera</i>	25' BT	Good	Good	Excellent		PROTECT AND PRESERVE
367	Date palm	<i>Phoenix dactylifera</i>	30' BT	Good	Good	Excellent		PROTECT AND PRESERVE
368	Date palm	<i>Phoenix dactylifera</i>	25' BT	Good	Good	Excellent		PROTECT AND PRESERVE
369	Floss silk tree	<i>Chorisia speciosa</i>	11	Good	Good	Excellent		PROTECT AND PRESERVE
370	Floss silk tree	<i>Chorisia speciosa</i>	15.5	Good	Good	Excellent		PROTECT AND PRESERVE
371	Date palm	<i>Phoenix dactylifera</i>	25' BT	Good	Good	Excellent		PROTECT AND PRESERVE
372	Date palm	<i>Phoenix dactylifera</i>	30' BT	Good	Good	Excellent		PROTECT AND PRESERVE
373	Modesto ash	<i>Fraxinus velutina</i> 'Modesto'	6, 6, 6.5, 7	Dormant	Good	Good		PROTECT AND PRESERVE
374	California pepper	<i>Schinus molle</i>	53	Good	Fair to poor	Excellent	Could keep depending on future use; cavities + history of breakage	PROTECT AND PRESERVE
375	California pepper	<i>Schinus molle</i>	21 @ 3'	Good	Fair	Excellent	Youngish	PROTECT AND PRESERVE
376	California pepper	<i>Schinus molle</i>	15.5, 17	Good	Good	Excellent	Youngish	PROTECT AND PRESERVE
377	California pepper	<i>Schinus molle</i>	46	Good	Very poor	Very good	Could keep depending on future use; would have to severely prune. However, tree will be in the way of new construction, and because of poor form it is not cost effective to transplant.	PROTECT AND PRESERVE
378	California pepper	<i>Schinus molle</i>	40	Good	Very poor	Very good	Could keep depending on future use; would have to severely prune. However, tree will be in the way of new construction, and because of poor form it is not cost effective to transplant.	REMOVE
379	California pepper	<i>Schinus molle</i>	41	Good	Very poor	Good	Could keep depending on future use; would have to severely prune. However, tree will be in the way of new construction, and because of poor form it is not cost effective to transplant.	REMOVE
380	California pepper	<i>Schinus molle</i>	33	Good	Very poor	Good	Tree will be in the way of new construction, and because of poor form it is not cost effective to transplant.	REMOVE
381	California pepper	<i>Schinus molle</i>	31	Good	Poor	Very good	Tree will be in the way of new construction, and because of poor form it is not cost effective to transplant.	REMOVE
382	California pepper	<i>Schinus molle</i>	35	Good	Very poor	Good	Tree will be in the way of new construction, and because of poor form it is not cost effective to transplant.	REMOVE
383	California pepper	<i>Schinus molle</i>	15	Good	Good	Excellent	Youngish. Tree will be in the way of new construction, and because of poor form it is not cost effective to transplant.	REMOVE
384	Canary Island date palm	<i>Phoenix canariensis</i>	45' BT	Good		Excellent	Needs ivy removed to evaluate properly	TRANSPLANT
385	Canary Island date palm	<i>Phoenix canariensis</i>	45' BT	Good		Excellent	Needs ivy removed to evaluate properly	TRANSPLANT

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Tree #	Common Name	Botanical Name	Diameter at 4.5 feet (dbh) in inches	Condition Rating	Structure Rating	Suitability for Preservation	Comments	Disposition
386	Shamel ash	<i>Fraxinus uhdei</i>	13	Dormant	Fair to good	Good	Slight lean. Tree will be in the way of new construction, and because of poor form it is not cost effective to transplant.	REMOVE
387	Modesto ash	<i>Fraxinus velutina</i> 'Modesto'	24	Dormant	Fair	Good	Topped. Tree will be in the way of new construction, and because of poor form it is not cost effective to transplant.	REMOVE
388	Mexican elderberry	<i>Sambucus mexicana</i>	11	Good	Good	Very good	California native. Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
389	Fremont cottonwood	<i>Populus fremontii</i>	34	Dormant	Fair	Good	Topped. Tree will be in the way of new construction, and because of poor form it is not cost effective to transplant.	REMOVE
390	Modesto ash	<i>Fraxinus velutina</i> 'Modesto'	27	Dormant	Fair	Very good	Topped. Tree will be in the way of new construction, and because of poor form it is not cost effective to transplant.	REMOVE
391	Shamel ash	<i>Fraxinus uhdei</i>	39	Good	Fair to poor	Very good	Topped and history of breakage; needs pruning	REMOVE
392	Modesto ash	<i>Fraxinus velutina</i> 'Modesto'	22	Good	Fair	Very good	Tree will be in the way of new construction, and because of poor form it is not cost effective to transplant.	REMOVE
393	London plane tree	<i>Platanus x acerifolia</i>	8	Dormant	Fair	Good	Not an ideal specimen. Tree will be in the way of new construction, and because of poor form it is not cost effective to transplant.	REMOVE
394	Shamel ash	<i>Fraxinus uhdei</i>	26	Good	Fair	Very good	Topped. Tree will be in the way of new construction, and because of poor form it is not cost effective to transplant.	REMOVE
395	Modesto ash	<i>Fraxinus velutina</i> 'Modesto'	15	Dormant	Fair	Good	Tree will be in the way of new construction, and because of poor form it is not cost effective to transplant.	REMOVE
396	Modesto ash	<i>Fraxinus velutina</i> 'Modesto'	13.5	Dormant	Fair to poor	Good	Decayed trunk	REMOVE
397	Modesto ash	<i>Fraxinus velutina</i> 'Modesto'	17	Dormant	Fair	Good	History of breakage	REMOVE
398	California pepper	<i>Schinus molle</i>	8, 11.5	Good	Good	Fair	Topped but salvageable. Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
399	California pepper	<i>Schinus molle</i>	7 @ 2'	Good	Good	Fair	Lean -- remove	REMOVE
400	California pepper	<i>Schinus molle</i>	7 @ 2'	Good	Good	Fair	Lean -- remove	REMOVE
401	California pepper	<i>Schinus molle</i>	46	Good	Fair to poor	Fair to good	High target; topped for utility line clearance	REMOVE
402	California pepper	<i>Schinus molle</i>	27	Good	Fair to poor	Fair to good	High target; topped for utility line clearance	REMOVE
403	California pepper	<i>Schinus molle</i>	41	Good	Fair to poor	Fair	High target; topped for utility line clearance	REMOVE
404	Modesto ash	<i>Fraxinus velutina</i> 'Modesto'	13	Dormant	Fair	Very good	Will be under proposed building - remove	REMOVE
405	Modesto ash	<i>Fraxinus velutina</i> 'Modesto'	25	Dormant	Poor	Poor	Tree has split vertically	REMOVE
406	Modesto ash	<i>Fraxinus velutina</i> 'Modesto'	20	Dormant	Fair	Good	Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE

Tree Inventory at Guasti Villa, Ontario, California

Tree #	Common Name	Botanical Name	Diameter at 4.5 feet (dbh) in inches	Condition Rating	Structure Rating	Suitability for Preservation	Comments	Disposition
407	Shamel ash	<i>Fraxinus uhdei</i>	23	Dormant	Fair	Good	Codominant stems are problematic. Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
408	California pepper	<i>Schinus molle</i>	20	Good	Good	Excellent	Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
409	California pepper	<i>Schinus molle</i>	23	Good	Fair	Excellent	History of breakage	REMOVE
410	California pepper	<i>Schinus molle</i>	23.5	Good	Fair	Excellent	Cavity -- is a small tree now. Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
411	California pepper	<i>Schinus molle</i>	57	Good	Poor	Good	Tree would have to be heavily pruned if to be preserved.	REMOVE
412	Modesto ash	<i>Fraxinus velutina</i> 'Modesto'	20.5 @ 2'	Dormant	Good	Very good	Topped	REMOVE
413	Modesto ash	<i>Fraxinus velutina</i> 'Modesto'	23 @ 4'	Dormant	Good	Very good	Topped	REMOVE
414	Modesto ash	<i>Fraxinus velutina</i> 'Modesto'	22 @ 4'	Dormant	Fair	Very good	Vertical crack + cavity (topped)	REMOVE
415	California pepper	<i>Schinus molle</i>	16	Good	Good	Excellent		PROTECT AND PRESERVE
416	California pepper	<i>Schinus molle</i>	10, 14	Good	Good	Excellent		PROTECT AND PRESERVE
417	California pepper	<i>Schinus molle</i>	12	Good	Good	Excellent		PROTECT AND PRESERVE
418	California pepper	<i>Schinus molle</i>	47	Good	Poor	Good	Tree would have to be heavily pruned if to be preserved. Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
419	California pepper	<i>Schinus molle</i>	53	Good	Poor	Good	Tree would have to be heavily pruned if to be preserved. Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
420	Red gum	<i>Eucalyptus camaldulensis</i>	17, 19, 28	Good	Good	Excellent	Nice tree. Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
421	Red gum	<i>Eucalyptus camaldulensis</i>	27	Good	Good	Excellent	Nice tree. Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
422	Blue gum	<i>Eucalyptus globulus</i>	38	Good	Fair	Excellent	Nice tree. Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
423	Mexican fan palm	<i>Washingtonia robusta</i>	18' BT	Good	Good	Very good	Transplant if not cost prohibitive	TRANSPLANT
424	Red gum	<i>Eucalyptus camaldulensis</i>	33	Good	Good	Excellent	Nice tree. Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
425	Red gum	<i>Eucalyptus camaldulensis</i>	9, 10.5 @ 3'	Good	Fair	Excellent	Codominant stems are problematic	REMOVE
426	Red gum	<i>Eucalyptus camaldulensis</i>	6, 6, 7	Good	Good	Good	Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
427	Red gum	<i>Eucalyptus camaldulensis</i>	31	Good	Good	Excellent	Nice tree	PROTECT AND PRESERVE

Tree Inventory at Guasti Villa, Ontario, California

Tree #	Common Name	Botanical Name	Diameter at 4.5 feet (dbh) in inches	Condition Rating	Structure Rating	Suitability for Preservation	Comments	Disposition
428	Red gum	<i>Eucalyptus camaldulensis</i>	32	Good	Good	Excellent	Nice tree	PROTECT AND PRESERVE
429	Red gum	<i>Eucalyptus camaldulensis</i>	5.5, 8.5, 9	Good	Fair	Very good	3 trunks arising at 2'. Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
430	Red gum	<i>Eucalyptus camaldulensis</i>	19	Good	Fair to poor	Fair	Needs deadwood removed; basal decay + fruiting bodies. Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
431	Red gum	<i>Eucalyptus camaldulensis</i>	34	Good	Good	Excellent	Nice tree	PROTECT AND PRESERVE
432	Red gum	<i>Eucalyptus camaldulensis</i>	36	Good	Fair to poor	Excellent	Will be under proposed building - remove	REMOVE
433	Red gum	<i>Eucalyptus camaldulensis</i>	37	Fair	Fair	Excellent	Will be under proposed building - remove	REMOVE
434	Red gum	<i>Eucalyptus camaldulensis</i>	18	Good	Good	Excellent		PROTECT AND PRESERVE
435	Red gum	<i>Eucalyptus camaldulensis</i>	33	Good	Good	Excellent		PROTECT AND PRESERVE
436	California pepper	<i>Schinus molle</i>	56	Good	Poor	Very good	Should keep for habitat if possible	PROTECT AND PRESERVE
437	Chinaberry	<i>Melia azedarach</i>	14, 15	Dormant	Poor	Very good	Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
438	Chinaberry	<i>Melia azedarach</i>	4, 5.5, 5.5, 7.5, 12	Dormant	Fair	Very good	Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
439	Tree of heaven	<i>Ailanthus altissima</i>	16.5	Dormant	Good	Poor	Invasive species -- remove	REMOVE
440	Tree of heaven	<i>Ailanthus altissima</i>	21	Dormant	Good	Poor	Invasive species -- remove	REMOVE
441	Mimosa	<i>Albizzia julibrissin</i>	7.5 @ 3'	Good	Good	Excellent		PROTECT AND PRESERVE
442	Red gum	<i>Eucalyptus camaldulensis</i>	22	Good	Good	Excellent		PROTECT AND PRESERVE
443	Blue gum	<i>Eucalyptus globulus</i>	39	Good	Fair	Excellent	Should prune -- cars park here.	PROTECT AND PRESERVE
444	Red gum	<i>Eucalyptus camaldulensis</i>	39	Good	Fair	Excellent	Nice tree	PROTECT AND PRESERVE
445	Red gum	<i>Eucalyptus camaldulensis</i>	11.5	Good	Good	Good	Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
446	Red gum	<i>Eucalyptus camaldulensis</i>	16	Good	Good	Good	Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
447	Red gum	<i>Eucalyptus camaldulensis</i>	11.5	Good	Good	Good	Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
448	Red gum	<i>Eucalyptus camaldulensis</i>	11	Good	Good	Good	Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
449	Red gum	<i>Eucalyptus camaldulensis</i>	15	Good	Fair	Good	Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
450	Red gum	<i>Eucalyptus camaldulensis</i>	18.5	Good	Fair	Good	Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
451	Red gum	<i>Eucalyptus camaldulensis</i>	6	Good	Good	Good	Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE

Tree Inventory at Guasti Villa, Ontario, California

Tree #	Common Name	Botanical Name	Diameter at 4.5 feet (dbh) in inches	Condition Rating	Structure Rating	Suitability for Preservation	Comments	Disposition
452	Red gum	<i>Eucalyptus camaldulensis</i>	17	Good	Good	Good	Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
453	Red gum	<i>Eucalyptus camaldulensis</i>	7	Good	Good	Good	Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
454	Red gum	<i>Eucalyptus camaldulensis</i>	2.5	Good	Good	Good	Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
455	Red gum	<i>Eucalyptus camaldulensis</i>	18	Good	Good	Good	Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
456	Red gum	<i>Eucalyptus camaldulensis</i>	7.5	Good	Good	Good	Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
457	Red gum	<i>Eucalyptus camaldulensis</i>	10	Good	Good	Good	Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
458	Red gum	<i>Eucalyptus camaldulensis</i>	6	Good	Good	Good	Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
459	Red gum	<i>Eucalyptus camaldulensis</i>	4.5	Good	Good	Good	Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
460	Red gum	<i>Eucalyptus camaldulensis</i>	9	Good	Fair	Good	Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
461	Red gum	<i>Eucalyptus camaldulensis</i>	13	Good	Good	Good	Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
462	Red gum	<i>Eucalyptus camaldulensis</i>	13.5	Good	Good	Good		PROTECT AND PRESERVE
463	Red gum	<i>Eucalyptus camaldulensis</i>	9.5, 14.5	Good	Fair	Good	History of breakage	REMOVE
464	Red gum	<i>Eucalyptus camaldulensis</i>	30	Good	Good	Excellent		PROTECT AND PRESERVE
465	Blue gum	<i>Eucalyptus globulus</i>	31.5	Fair	Fair	Good	Needs pruning and tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
466	Blue gum	<i>Eucalyptus globulus</i>	23	Good	Fair	Good	Recently pruned. Tree will be in the way of construction and not cost effective enough to transplant	REMOVE
467	Blue gum	<i>Eucalyptus globulus</i>	31	Good	Fair	Good	Recently pruned. Tree will be in the way of construction and not cost effective enough to transplant	REMOVE
468	Blue gum	<i>Eucalyptus globulus</i>	30	Good	Fair	Good	Needs pruning and tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
469	Blue gum	<i>Eucalyptus globulus</i>	34	Good	Fair	Good	Needs pruning and tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
470	Blue gum	<i>Eucalyptus globulus</i>	19	Good	Fair	Good	Needs pruning and tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
471	Blue gum	<i>Eucalyptus globulus</i>	32	Good	Fair	Good	Needs pruning and tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
472	Red gum	<i>Eucalyptus camaldulensis</i>	4.5, 7.5, 7	Good	Good	Very good	Tree will be in the way of new construction, and it is not cost effective to transplant.	REMOVE
Plants Added By Landscape Architects								

Tree Inventory at Guasti Villa, Ontario, California

Tree #	Common Name	Botanical Name	Diameter at 4.5 feet (dbh) in inches	Condition Rating	Structure Rating	Suitability for Preservation	Comments	Disposition
473	Mexican fan palm	<i>Washintonia robusta</i>	30' btf				Dead	REMOVE
474	Mexican fan palm	<i>Washingtonia robusta</i>	45' btf				Remove fence before transplanting	TRANSPLANT
475	Mexican fan palm	<i>Washingtonia robusta</i>	30' btf				Growing into concrete stantion, not worth moving	TRANSPLANT
476	Cactus	<i>Cereus peruvianus</i>	96			Very good	Growing into contrete stantion, not worth moving	TRANSPLANT
477	Unknown species					Poor	Tree will be in the way of new construction, and because of poor form it is not cost effective to transplant.	REMOVE
478	Unknown species					Poor	Tree will be in the way of new construction, and because of poor form it is not cost effective to transplant.	REMOVE

SECTION 01569 - TREE PROTECTION AND TRIMMING**PART 1 - GENERAL****1.1 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including the General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. New Work: This Section includes the protection and trimming of trees that are to remain but interfere with, or are affected by, execution of the Work, whether temporary or new construction.
- B. Existing Work: Some trees on site already have been given tree protection of various types. This Section includes the maintenance of and all necessary restoration to the existing protections until such time as the Owner Representative issues written notice that protection shall be removed.

1.3 SUBMITTALS

- A. Product data for each type of product specified.
- B. Qualification data for firms and persons specified in the "Quality Assurance" Article to demonstrate their capabilities and experience. Include lists of completed projects with project names and addresses, names and addresses of architects and the Owner's Representative, and other information specified.
- C. Certification by a qualified arborist that trees indicated to remain have been protected during construction according to recognized standards and that trees were promptly and properly treated and repaired when damaged.
- D. Maintenance recommendations for care and protection of trees affected by construction after completing the Work by the Arborist.

1.4 QUALITY ASSURANCE

- A. Tree Service Qualifications:
1. Contractor shall maintain an experienced, qualified arborist on the Project site on a full-time basis during execution of the Tree Protection work. This arborist shall be consulted and shall conduct a site inspection visit at any time when a change in the status of tree protection occurs, for any reason.
 2. Arborist Qualifications:
 - a. Site Arborist: The Contractor shall utilize a registered arborist certified by the International Society of Arboriculture or licensed in the jurisdiction where the Project is located to oversee all transplanting and trenching near existing trees, provide any pruning services required for existing and new trees. All site work shall be done under their review, in conformance with their recommendations.
- B. Tree Pruning Standards: Comply with the National Arborist Association's "Pruning Standards for Shade Trees" except where more stringent requirements are indicated.
- C. Pre-installation Conference:
1. Before commencing tree protection and trimming, meet with representatives of authorities having jurisdiction, The Owner Representative, consultants, and other concerned entities.

Review tree protection and trimming procedures and responsibilities. Notify participants at least three (3) working days prior to convening conference. Record discussions and agreements and furnish a copy to each participant.

PART 2 - A ‘Warning’ sign is prominently displayed on each protective enclosure. The sign will be a minimum of 8.5 inches x 11 inches and clearly state the following:

PART 3 - PRODUCTS

3.1 MATERIALS

- A. Drainage Fill: See Division 2 – Section ‘Landscape Drainage’.
- B. Topsoil and Filter Fabric: See Division 2 – Section ‘Trees, Shrubs and Ground Cover Plantings’.
- C. Protective Fencing: Standard 6 foot metal chain link fence, with metal “T-bar” stakes. 1 1/2 inch by 1 1/2 inch by 1/8 inch or equal, sunk into the ground 2 foot minimum, with a three (3) foot wide moveable opening to provide access to the tree trunk. Each enclosure will have a ‘Warning’ sign placed at 10-foot intervals and clearly state the following:

<p style="text-align: center;">WARNING Tree Protection Zone This Fence Shall Not be Removed</p>
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- D. Wood Chip Mulch: See Division 2 – Section ‘Trees, Shrubs and Ground Cover Plantings’.
- E. A source of potable water and 3/8” diameter soaker hoses, placed radially around each trunk, shall be provided for each fence enclosure. Supplemental irrigation will be provided by the contractor as directed by the Owner or Arborist of Record.

PART 4 - EXECUTION

4.1 PREPARATION

- A. Temporary Protection: Provide temporary fencing, barricades, or other suitable guards located outside the drip line (outer perimeter of branches) to protect remaining trees and other plants from damage.
- B. Protect tree root systems from damage due to noxious materials caused by run-off or spillage while mixing, placing, or storing construction materials. Protect root systems from flooding, eroding, or excessive wetting caused by dewatering operations.
- C. Place a six (6) inch layer of wood chip mulch under drip line of all trees to remain.
- D. Do not store construction materials, debris, or excavated material within the drip line of remaining trees.
- E. Do not permit vehicles or foot traffic within the drip line, and prevent soil compaction over root systems. Steel traffic plates may be employed.
- F. Do not allow fires under or adjacent to remaining trees or other plants.

4.2 EXCAVATION

- A. Install shoring or other protective support systems to minimize sloping or benching of excavations.
- B. Excavation within the drip line of existing trees to remain shall be prohibited without the approval of the Arborist. If approved, proceed as described below.
- C. Where excavation for new construction is required within tree drip lines, hand excavate to minimize damage to root systems. Use narrow-tine spading forks and comb soil to expose roots.
 - 1. Relocate roots in backfill areas wherever possible. If encountering large, main lateral roots, expose beyond excavation limits as required to bend and relocate roots without breaking. If encountered immediately adjacent to location of new construction and relocation is not practical, cut roots approximately 3 inch back from new construction.
 - 2. Do not allow exposed roots to dry out before placing permanent backfill. Provide temporary earth cover or pack with peat moss and wrap with burlap. Water and maintain in a moist condition and temporarily support and protect roots from damage until they are permanently relocated and covered with earth.
- D. Where utility trenches are required within tree drip lines, tunnel under or around the roots by drilling, auger boring, pipe jacking, or digging by hand.
 - 1. Review: The Owner Representative shall review all proposed work within root area prior to execution of the work.
 - 2. Root Pruning: Do not cut main lateral roots or tap roots; cut only smaller roots that interfere with installation of new work. Cut roots with sharp pruning instruments; do not break or chop.

4.3 REGRADING

- A. Approval: Maintain the natural existing grade around all trees, within the drip line area, unless indicated otherwise. Cut and fill shall be accomplished only upon the authority of the Arborist or Owner Representative. If approved, proceed as described below.
- B. Grade Lowering:
 - 1. Where new finish grade must be set below existing grade around trees, slope grade away from trees as recommended by Arborist. Maintain existing grades within tree drip line.
 - 2. Root Pruning: Prune tree roots exposed during grade lowering. Do not cut main lateral roots or tap roots; cut only smaller roots. Cut roots with sharp pruning instruments; do not break or chop.
- C. Minor Fill: Where existing grade is four (4) inches or less below elevation of finish grade shown, fill with topsoil. Place topsoil in a single non-compacted layer and hand grade to required finish elevations. Do not use mechanical compaction within the drip line of existing trees to remain.
- D. Moderate Fill: Where existing grade is more than four (4) inches but less than 12 inches below finish grade elevation, place a layer of drainage fill, filter fabric, and a final layer of topsoil on existing grade.
 - 1. Carefully place drainage fill against tree trunk approximately two (2) inches above finish grade elevation and extend not less than 18 inches from tree trunk on all sides. For balance of area within drip-line perimeter, place drainage fill to an elevation four (4) inches below grade.
 - 2. Place filter fabric with four (4) inches minimum of overlapping edges.
 - 3. Place fill layer of topsoil to finish grade. Do not compact drainage fill or topsoil. Hand grade to required finish elevations.

4.4 TREE CANOPY ALTERATION

- A. Approval: Unauthorized pruning of trees on the job site is prohibited. Pruning shall be accomplished only upon the authority of the Arborist or Owner Representative.

- B. Prune remaining trees affected by temporary and new construction. Prune remaining trees to compensate for root loss caused by damaging or cutting root system. Provide subsequent maintenance during the Contract period as recommended by arborist.
- C. Pruning Standards: Prune trees according to the ISA pruning guidelines, the ANSI-300 pruning standards, and the National Arborist Association's "Pruning Standards for Shade Trees."
 - 1. Class I: -Fine Pruning,
 - 2. Class II: Standard pruning.
 - 3. Class III: Hazard pruning.
 - 4. Class IV: Crown-reduction pruning.
- D. Cut branches with sharp pruning instruments; do not break or chop.
- E. Chip all branches removed from trees. Spread material where indicated or as directed by The Owner Representative.

4.5 TREE REPAIR AND REPLACEMENT

- A. Damage Assessment:
 - 1. Damage to trees to remain shall be appraised using the "Guide to Plant Appraisal, 9th Edition." Monetary fines will be assessed according to extent of damage. Severely damaged trees shall be replaced at no cost to the Owner Representative.
 - 2. The Arborist shall be sole arbiter of description of damage, assessor of fines and/or determination of replacement value.
- B. Repair: Promptly repair trees damaged by construction operations.
- C. Replacement: Remove and replace dead and damaged trees that the Arborist determines to be incapable of restoring to a normal growth pattern.
 - 1. Provide new trees of six (6)-inch caliper size and of a species selected by the Owner Representative when trees over six (6) inches in caliper, measured 12 inches above grade, are required to be replaced.

4.6 DISPOSAL OF WASTE MATERIALS

- A. Burning: Burning is not permitted on the Owner's property.

END OF SECTION - 02231

CERTIFICATION OF PERFORMANCE

I, Cy Carlberg, certify:

- That I have personally inspected the tree(s) and/or the property referred to in this report, and have stated my findings accurately. The extent of the evaluation and appraisal is stated in the attached report and the Terms of Assignment;
- That I have no current or prospective interest in the vegetation or the property that is the subject of this report and have no personal interest or bias with respect to the parties involved;
- That the analysis, opinions, and conclusions stated herein are my own;
- That my analysis, opinions, and conclusions were developed and this report has been prepared according to commonly accepted arboricultural practices;
- That no one provided significant professional assistance to the consultant, except as indicated within the report;
- That my compensation is not contingent upon the reporting of a predetermined conclusion that favors the cause of the client or any other party.

I further certify that I am a member of the American Society of Consulting Arborists, and that I acknowledge, accept, and adhere to the ASCA Standards of Professional Practice. I am an International Society of Arboriculture Certified Arborist, and have been involved in the practice of arboriculture and the study of trees for over twenty-five years.

Signed:



Date: _____ August 13, 2007 _____

CY CARLBERG

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Education B.S., Landscape Architecture, California State Polytechnic University, Pomona, 1985
Graduate, Arboricultural Consulting Academy, American Society of Consulting Arborists, Chicago, Illinois, February 2002

Experience Consulting Arborist, 1998-present
Manager of Grounds Services, California Institute of Technology, Pasadena, 1992-1998
Director of Grounds, Scripps College, Claremont, 1988-1992

Certificates Certified Arborist (#WE-575A), International Society of Arboriculture, 1990
Registered Consulting Arborist (#405), American Society of Consulting Arborists, 2002
Certified Urban Forester, (#113), California Urban Forests Council, 2004

Areas of Expertise

Ms. Carlberg is accomplished in Geographic Information Systems (GIS) mapping and Microsoft Access database customization. She is experienced in the following areas of tree management and preservation:

- Tree inventory and risk assessment
- Evaluation of trees for preservation
- Tree protection on construction sites
- Pest and disease identification
- Guidelines for oak preservation
- Selection of appropriate tree species
- Planting, pruning, and maintenance specifications

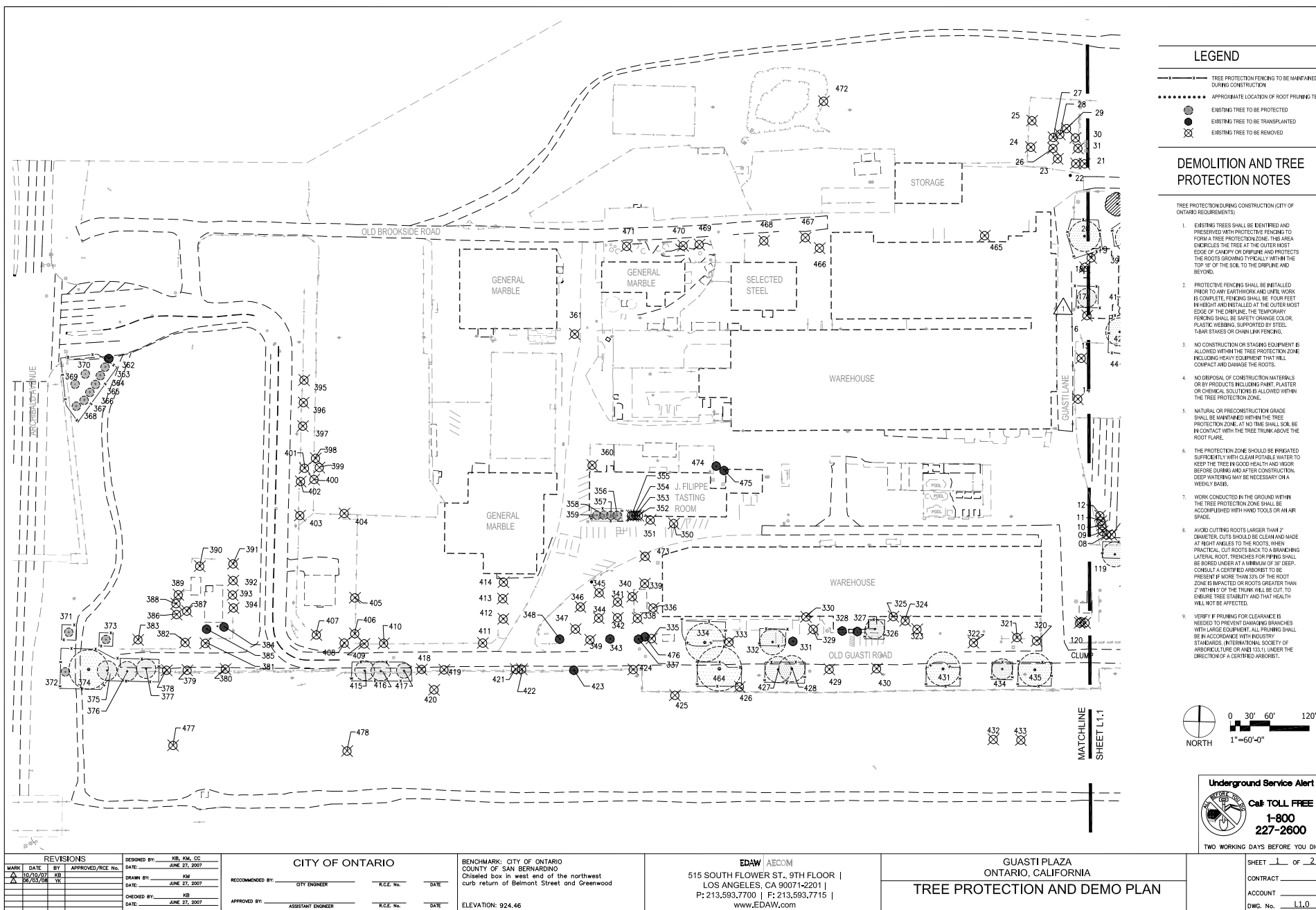
Previous Consulting Experience

Ms. Carlberg has overseen residential and commercial construction projects to prevent damage to protected and specimen trees. She has twenty-five years of experience in arboriculture and horticulture, and has performed tree health evaluation and risk assessment for government agencies, cities, school districts, and colleges. Representative clients include:

- The Los Angeles Zoo
- The City of Beverly Hills
- The Art Center College of Design, Pasadena
- The Walt Disney Concert Hall Gardens
- The City of Claremont
- The City of Pasadena
- Occidental College, Los Angeles
- Pitzer College, Claremont
- Scripps College, Claremont
- Pomona College, Claremont
- Harvey Mudd College, Claremont
- The Claremont Unified School District
- The Los Angeles Department of Water and Power
- The Long Beach Unified School District (over 20,000 trees)

Ms. Carlberg serves with the following national, state, and community professional organizations:

- California Urban Forest Council, Board Member, 1995-present
- Tree Advisory Commission, City of Sierra Madre, 1999-2003
- American Society of Consulting Arborists Academy, Faculty Member, 2003-2005



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Appendix B: Arborist Report, Tree Protection Plan and Inventory C: Carlberg

